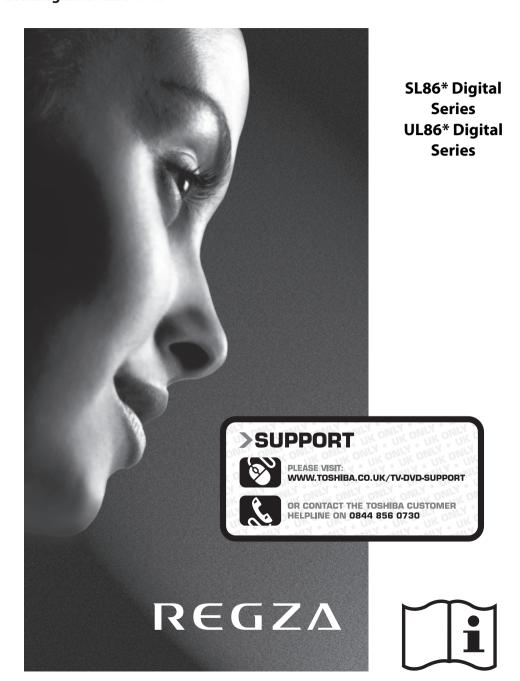
# **TOSHIBA**

**Leading Innovation** >>>



# Contents

| INST | ALL | .ING | YO | UR | TV |
|------|-----|------|----|----|----|
|------|-----|------|----|----|----|

| Safety Precautions                                  | 4   |
|---|-----|
| Installation and important information              | 5   |
| The remote control                                  | 8   |
| Inserting batteries and effective range             |     |
| The remote control                                  |     |
| Inserting batteries and effective range             |     |
| inserting batteries and enecave range               |     |
| CONNECTING YOUR TV                                  |     |
| Connecting external equipment                       | 10  |
| Connecting an HDMI® or DVI device to the HDMI input | t11 |
| To connect an HDMI device                           | 11  |
| To connect a DVI device                             | 11  |
| HDMI's ARC (Audio Return Channel) feature           | 11  |
| REGZA-LINK connection                               | 12  |
| Connecting a computer                               | 13  |
| To connect a PC to the RGB/PC terminal              | 13  |
| To connect a PC to the HDMI terminal                |     |
| Connecting a home network                           |     |
| To connect the TV to a home network - Wired         |     |
| To connect the TV to a home network with an inte    |     |
| connection - Wireless                               |     |
| Setting up the USB HDD (for UL86 series)            | 15  |
| Controls and input connections                      | 16  |
| Switching on  | 16  |
| Using the remote control                            |     |
| Using the controls and connections                  |     |
| MENU structure                                      | 17  |
| SETTING UP YOUR TV                                  |     |
|   | 10  |
| Startup Application                                 |     |
| Ant/Cable/Satellite (if available)                  |     |
| Satellite Settings                                  |     |
| Auto Tuning   |     |
| ATV Manual Tuning                                   |     |
| Tuning  |     |
| Skip  |     |
| Sorting positions                                   |     |
| DTV Manual Tuning                                   |     |
| Manual Tuning                                       |     |
| Manual Tuning for DVB-C                             |     |
| Manual Tuning for DVB-S                             |     |
| DTV Settings  |     |
| Channels (Antenna/Cable)                            |     |
| Channels (Satellite)                                |     |
| Standby Channel Update                              |     |
| DVB Character Set                                   |     |
| Dynamic Scan  |     |
| Location setting                                    |     |
| Analogue switch-off                                 | 28  |

# **CONTROLS AND FEATURES**

|        | ral controls                            |    |
|--------|---|----|
| (      | Quick Menu                              | 29 |
|        | Selecting positions                     |    |
| 1      | The Time Display – <b>analogue</b> only | 29 |
| 9      | Stereo and Bilingual transmissions      | 29 |
| Soun   | d controls                              | 30 |
|        | /olume controls and sound mute          |    |
|        | Dual                                    |    |
| E      | Balance                                 | 30 |
|        | Sound Navi                              |    |
|        | Surround Settings                       |    |
|        | Oolby Volume®                           |    |
|        | Dynamic Range Control                   |    |
|        | Audio Level Offset                      |    |
|        | Headphone Settings                      |    |
| 1      | Audio Description                       | 31 |
| Wide   | screen viewing                          | 32 |
| Pictui | re controls                             | 34 |
|        | Picture Mode                            |    |
| F      | Picture preferences                     | 34 |
|        | Reset                                   |    |
|        | Colour Master                           |    |
|        | Base Colour Adjustment                  |    |
|        | Colour Temperature                      |    |
|        | Auto Brightness Sensor Settings         |    |
|        | Active Backlight Control                |    |
|        | Black/White Level                       |    |
|        | Static Gamma                            |    |
|        | MPEG NR – Noise Reduction               |    |
|        | DNR – Digital Noise Reduction           |    |
|        | Resolution+                             |    |
|        | Active Vision M100                      |    |
|        | Motion Detection Range                  |    |
|        | Resetting the advanced picture settings |    |
|        | Expert Picture Settings                 |    |
|        | Control Visualization                   |    |
|        | Automatic Format (Widescreen)           |    |
|        | 4:3 Stretch                             |    |
|        | Blue Screen                             |    |
|        | Picture Position<br>Picture still       |    |
|        | HDMI Information Display                |    |
|        |   |    |
|        | your home network                       |    |
|        | ess LAN Information (for UL86 series)   |    |
|        | ng up the Network                       |    |
|        | Nireless Setup                          |    |
|        | Advanced Network Setup                  |    |
|        | ONS Setup                               |    |
|        | Network Connection Test                 |    |
| -      | the software keyboard                   |    |
|        | ork Device Setup                        |    |
|        | External Control Setup                  |    |
| I      | Media Renderer Setup                    | 48 |
|        |   |    |

| Using the USB HDD Function (for UL86 series)4                       | 9 Common Interface   | 78 |
|---|--|----|
| To record DTV programmes  | Software Upgrade and Licences  | 78 |
| (One Touch Recording)4  | Auto opgrade   | 78 |
| To schedule programmed recording4                                   | searching for few software   | 78 |
| To check, edit or delete scheduling information5.                   | retwork opgrade  | 79 |
| To view a recorded programme5                                       | SOTTWATE LICETICES   | 79 |
| Operations from the Library screen5                                 | System initiation and neset iv   | 79 |
| Other useful functions (Time Shift Recording)5                      | 3ystem intornation   | 79 |
| Recording Setup5  | 1/C3CL I V   | 79 |
| To disconnect a USB HDD5  | PC Settings  | 80 |
| To confirm/delete Recording Information5                            | Horizontal and Vertical Position   | 80 |
| Scheduling priority5  | CIOCK PHASE  | 80 |
| Camera Sensor Settings5   | Jamping Clock  | 80 |
| Device Name Setup5  | Neset  | 80 |
| Using Toshiba Places5   | input selection and AV connections   | 81 |
| Using BBC iPlayer5  | input sciection  | 81 |
| Using YouTube™5   |  | 81 |
| Using the Function Menu6  | J  | 82 |
| Using the Media Player6   | PC Audio   | 82 |
| Basic operation6  | 2 HDMI 3 Audio   | 82 |
| Viewing photo files   | HDMI Settings  | 83 |
| (on a DLNA CERTIFIED™ Server or USB device)6                        | Digital Audio Output   | 83 |
| Viewing movie files   | Using Personal TV Mode   | 84 |
| (on a DLNA CERTIFIED™ Server or USB device)6.                       | Using REGZA-LINK   | 86 |
| Playing music files  (on a DI NA CEPTIEIED™ Sorver or USP device) 6 | Enable REGZA-LINK  | 86 |
| (on a DLNA CERTIFIED™ Server or USB device)6                        | IV Auto Power  | 86 |
| Using the Photo Frame feature6                                      | Auto Standby   | 86 |
| To open Photo Frame6  | Amplifier Control  | 86 |
| Setting the features60  | Initial Speaker Setting  |    |
| Other features  | rosition key rass milough  |    |
| Panel Lock  | REGZA-LINK Input source selection  |    |
| The timers  | ALGEN LINK DEVICE CONTROL  |    |
| Programme Timers – <b>digital</b> only                              | negati entrone toden play  |    |
| On Timer  | TEGEN EINC SYSTEM Standard   |    |
| Sleep Timer   | The state of the s |    |
| Energy Saving Settings7   |  | 88 |
| Automatic Power Down  |  |    |
| No Signal Power Down  |  | 00 |
| Digital on-screen information and Programme Guide7                  |  |    |
| Information7  |  |    |
| Guide7  |  |    |
| Genre selection/searching7  |  |    |
| Digital settings – parental control                                 |  |    |
| Parental PIN Setup7   | <b>,</b>   | 90 |
| Parental Setup70  | PRORI EM SOI VING  |    |
| Network Lock70  | Ougstions and Answers  | 91 |
| Digital settings – Channel Options70                                | b  |    |
| Selecting favorite channels70                                       | INFORMATION  |    |
| Favorite Channel Lists70  | License Information  | 94 |
| Skip channels   | Information  | 96 |
| Locking channels7   | /<br>C:::::  |    |
| Digital settings – other settings7                                  | ,  | 23 |
| Subtitles7  |  |    |
| Audio languages7  | /  |    |

# **Safety Precautions**

This equipment has been designed and manufactured to meet international safety standards but, like any electrical equipment, care must be taken to obtain the best results and for safety to be assured. Please read the points below for your own safety. They are of a general nature, intended to help with all electronic consumer products, and some points may not apply to the goods you have just purchased.

## Air Circulation

Leave more than 10cm clearance around the television to allow adequate ventilation. This will prevent overheating and possible damage to the television. Dusty places should also be avoided.

# **Heat Damage**

Damage may occur if the television is left in direct sunlight or near a heater. Avoid places subject to extremely high temperatures or humidity. Place in a location where the temperature remains between 5°C (41°F) min. and 35°C (94°F) max.

# **Mains Supply**

The mains supply required for this equipment is 220-240v AC 50/60Hz. Never connect to a DC supply or any other power source. DO ensure that the television is not standing on the mains lead. Use only the supplied lead.

DO NOT cut off the mains plug from this equipment, this incorporates a special Radio Interference Filter, the removal of which will impair its performance. In the UK, the fuse fitted in the plug is approved by ASTA or BSI to BS1362. It should only be replaced by a correctly rated and approved type and the fuse cover must be refitted.

IF IN DOUBT, PLEASE CONSULT A COMPETENT FLECTRICIAN.

## Do

**DO** read the operating instructions before you attempt to use the equipment.

**DO** ensure that all electrical connections (including the mains plug, extension leads and interconnections between pieces of equipment) are properly made and in accordance with the manufacturers' instructions. Switch off and withdraw the mains plug before making or changing connections.

**DO** consult your dealer if you are ever in doubt about the installation, operation or safety of your equipment.

**WARNING**: To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions. See page 5.

**DO** be careful with glass panels or doors on equipment.

DO NOT REMOVE ANY FIXED COVERS AS THIS WILL EXPOSE DANGEROUS AND 'LIVE' PARTS.

THE MAINS PLUG IS USED AS A DISCONNECTING DEVICE AND THEREFORE SHOULD BE READILY OPERABLE.

### Do not

**DO NOT** obstruct the ventilation openings of the equipment with items such as newspapers, tablecloths, curtains, etc. Overheating will cause damage and shorten the life of the equipment.

**DO NOT** allow electrical equipment to be exposed to dripping or splashing or objects filled with liquids, such as vases, to be placed on the equipment.

**DO NOT** place hot objects or naked flame sources, such as lighted candles or nightlights on, or close to equipment. High temperatures can melt plastic and lead to fires.



**WARNING:** To prevent the spread of fire, keep candles or other open flames away from this product at all times.

**DO NOT** use makeshift stands and NEVER fix legs with wood screws. To ensure complete safety, always fit the manufacturer's approved stand, bracket or legs with the fixings provided according to the instructions.

**DO NOT** leave equipment switched on when it is unattended, unless it is specifically stated that it is designed for unattended operation or has a standby mode. Switch off by withdrawing the plug, and make sure your family knows how to do this. Special arrangements may need to be made for people with disabilities.

**DO NOT** continue to operate the equipment if you are in any doubt about it working normally, or it is damaged in any way – switch off, withdraw the mains plug and consult your dealer.

**WARNING** – excessive sound pressure from earphones or headphones can cause hearing loss.

ABOVE ALL – NEVER let anyone, especially children, push or hit the screen, or push anything into holes, slots or any other openings in the case.

NEVER guess or take chances with electrical equipment of any kind – it is better to be safe than sorry.

# **Installation and important information**

## Where to install

Locate the television away from direct sunlight and strong lights. Soft, indirect lighting is recommended for comfortable viewing. Use curtains or blinds to prevent direct sunlight falling on the screen.

Place the TV on a stable, level surface that can support the weight of the TV. In order to prevent injury and maintain stability of this apparatus, secure the TV to the level surface using the strap if fitted, or to a wall using a sturdy tie to the P clips provided. Otherwise secure the TV on the level surface using the supplied mounting screw.

The LCD display panels are manufactured using an extremely high level of precision technology; however, sometimes some parts of the screen may be missing picture elements or have luminous spots. This is not a sign of a malfunction.

Make sure the television is located in a position where it cannot be pushed or hit by objects, as pressure will break or damage the screen. Also, please be certain that small items cannot be inserted into slots or openings in the case.

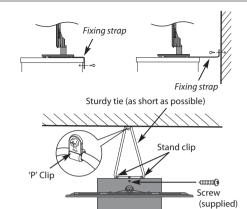
## When using a Wall Bracket

Please use a wall bracket appropriate for the size and weight of the LCD TV.

- Two people are required for installation.
- · Never use the four screws attached to the TV.
- Unplug and remove any cables and/or other component connectors from the rear of the TV.
- Carefully lay the front of the unit face down on a flat, cushioned surface such as a quilt or blanket.
- Follow the instructions provided with your wall bracket.

Before proceeding, make sure the appropriate bracket(s) are attached to the wall and the back of the TV as described in the instructions provided with the wall bracket.

Always use the screws supplied or recommended by the wall mount manufacturer.



Stand style is dependent on model



## Please take note

The digital reception function of this television is only effective in the countries listed in the "Country" section of the "Setup/System Setup" menu. Depending on country/area, some of this television's functions may not be available. Reception of future additional or modified services can not be guaranteed with this television.

If stationary images generated by 4:3 broadcasts, text services, channel identification logos, computer displays, video games, on-screen menus, etc. are left on the television screen for any length of time, they could become conspicuous. It is always advisable to reduce both the brightness and contrast settings.

Very long, continuous use of the 4:3 picture on a 16:9 screen may result in some retention of the image at the 4:3 outlines. This is not a defect of the LCD TV and is not covered under the manufacturer's warranty. Regular use of other size modes (eg: Super Live) will prevent permanent retention.

# **EXCLUSION CLAUSE**

Toshiba shall under no circumstances be liable for loss and/or damage to the product caused by:

- Fire
- ii) Earthquake:
- iii) Accidental damage;
- iv) Intentional misuse of the product;
- v) Use of the product in improper conditions;
- vi) Loss and/or damage caused to the product whilst in the possession of a third party;
- vii) Any damage or loss caused as a result of the owner's failure and/or neglect to follow the instructions set out in the owner's manual;
   viii) Any loss or damage caused directly as a result of misuse or malfunction of the product when used simultaneously with associated equipment;

Furthermore, under no circumstances shall Toshiba be liable for any consequential loss and/or damage including but not limited to the following: loss of profit, interruption of business, the loss of recorded data whether caused during normal operation or misuse of the product.

NOTE: A Toshiba wall bracket or stand, where available, must be used to maintain the product's BEAB approval.

# When Using an USB HDD (for UL86 series)

- The recording function has been designed for private use and entertainment in your home environment.
   Please note that any commercial use of the recording function could lead to copyright infringement of authors' rights. Toshiba asks you to respect the intellectual property rights of third parties.
- Before recording to a device connected to the TV, make a test recording and check the recording performance.
- Programmes that are prohibited from copying due to copyright protection cannot be recorded.
- Toshiba shall not be liable for compensation or incidental damages of any kind whatsoever resulting from content that was not properly recorded on the recording device or that was modified or lost.
- Toshiba shall not be liable for damages of any kind whatsoever (breakdown of the recording device, modification or loss of the recorded content, etc.) resulting from malfunction, operating failure or incorrect operation due to combining with another connected device.

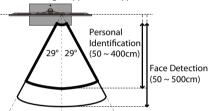
- If you connect and register an USB HDD that has been used with a PC or another TV or recorder to this TV, all the data and recorded programmes stored on the disk will be deleted.
- To use an USB HDD that has been used with this TV on a PC, the hard disk must first be formatted with the PC. At this time, all the data stored using the TV will be deleted.
- Do not turn off the power supply to the USB HDD or disconnect the connecting cable while the USB HDD is operating.
  - Doing so may result in loss of the recorded data or malfunction of the USB HDD.
- If you connect an USB bus-powered device to the USB 1 port, it may interfere with recording on the USB HDD.
  - The recording function is not available in all countries.
- Please note, that recording on the USB HDD are no longer playable, after the TV's main-board was exchanged during service.

# About the Camera Sensor (for UL86 Series)

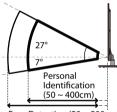
The camera sensor installed in this TV can detect a person's face or movement and identify individuals by their registered faces. Please note that certain factors can affect the performance of the sensor function as set out below.

#### **General Sensor Function**

- For the sensor to operate (for each function) you will need to be within the sensor detection range as set out below.
- The approximate effective detection range of the camera sensor is as shown below. (Note: The distance and angle of the detection range are based on a standard viewing environment and conditions).
  - Horizontal angle: approx. 58° (approx. 29° × 2)



 Vertical angle: approx. 34° (upward approx. 27°, downward approx. 7°)



Face Detection (50 ~ 500cm)

- Distance: approx. 50 cm to 500 cm (Personal Identification Function: approx. 50 cm to 400 cm)
- Do not place anything in front of the TV that may obstruct detection or reduce the sensor detection range.

## **Motion Detection Function**

- Motion detection may be affected by the surrounding environment, such as the brightness of the room. In addition, very slight, small or momentary movement may be undetected.
- Sensor performance can be enhanced by making sure the room is brightly lit and using prolonged and obvious movements.
- Billowing curtains, a pet or variations in illumination in the detection range may be detected as motion, even if there is no person there.
- You can use the camera sensor confirmation menu to check that no movement made by other persons is being detected.

#### **Face Detection Function**

- The sensor can detect up to eight persons.
- · Face Detection may be affected if:
  - Your face is obstructed or partially hidden, for example, by your hair, a mask or a hat.
  - Your head is tilted or turned to one side, or
  - You are wearing dark glasses or the light is reflected in your glasses.
- You can use the camera sensor confirmation menu to check whether your face is detected.
- The camera sensor may detect background images such as a picture portrait or the pattern on the wall as eyes or nose even if there is no person there. You can use the confirmation screen to check whether any such object in the detection range is being incorrectly detected as a face.
- Face Detection can be less effective on darker complexions and in darker environments.
- Face Detection can be enhanced by making sure your face is clearly visible and evenly lit. If the room is dark, Face Detection can be enhanced by making sure the room is brightly lit. If the lighting environment creates a shadow on your face, Face Detection can be enhanced by adjusting the lighting to prevent shadows.

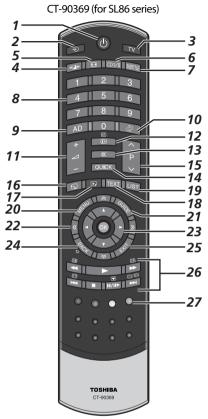
#### Personal Identification Function

- The Personal Identification Function is part of the Face Detection Function. The factors affecting the Face Detection Function set out above also apply to the Personal Identification Function.
- · Personal Identification may in addition be affected by:
  - A different shadow pattern from that when your face was registered. Personal Identification accuracy can be enhanced by registering additional facial images under different conditions.
  - A different lighting environment from when your face was registered, such as during the day and at night. Personal Identification accuracy can be enhanced by registering your face under various lighting environments.
  - Whether or not you are wearing glasses. If you wear glasses, we recommend that you register your face both with and without glasses.
  - A different facial expression. Personal Identification accuracy can be enhanced by registering different facial expressions.
- Personal Identification may be affected when faces have similar characteristics (e.g. brothers, sisters, twins).
- Personal Identification is less effective on the faces of young children.

## **Face Registration Function**

- Up to four people can be registered under the Personal Identification Function. The same person cannot be registered twice.
- A maximum of 10 different facial images per person can be registered. Personal identification accuracy can be enhanced by registering different facial images as set out above.
- It is advisable to register your face in your usual viewing position and with your natural facial expression. Registering your face too near to or too far from the screen may hinder identification performance.

# The remote control



- 1 For On/Standby mode
- 2 To select external input sources
- 3 To select TV Mode
- 4 Selectable Picture preferences
- 5 Widescreen viewing
- 7 Digital Subtitles or Analogue TEXT Subtitle pages if available
- 8 Number buttons
- 9 Switch the Audio Description On/Off
- 10 To return to previous programme position
- 11 To alter the TV volume
- 12 To display on-screen information To access the index page in Text mode
- 13 To mute the TV sound
- 14 To access Quick Menu
- 15 To change programme positions To change TEXT pages

- 16 To access "TOSHIBA PLACES" Top Page When network is not connected, an error message will be displayed.
- 17 To access Media Player Menu
- 18 To call up text services
- 19 To access the analogue or digital Channel List
- 20 On-screen Menus
- 21 To display the digital on-screen Programme Guide
- 22 🛇 😂 🔇 🏈 To page up, down, left or right
- 23 When using menus, the arrows move the cursor on the screen up, down, left or right. Press **OK** to confirm your selection
- 24 To return to previous Menu
- 25 To exit menus

# 26 When in TV mode: When in Text mode:

Picture still
Analogue time
display

text

To hold a wanted page

To enlarge text display size

To select a page

while viewing a normal picture

# When using Programme Guide:

−24 hours
 +24 hours
 −1 page
 +1 page

# During Playback: ➤ To PLAY

To STOP

IMI To PAUSE/STEP

To SKIP-BACK

To REWIND

To REWIND

To FAST FORWARD

To SKIP-FORWARD

27 Colour buttons: Text and interactive service control buttons

# Inserting batteries and effective range



Remove the back cover to reveal the battery compartment and make sure the batteries are inserted the proper way. Suitable battery types for this remote are AA, IEC R6 1.5V.

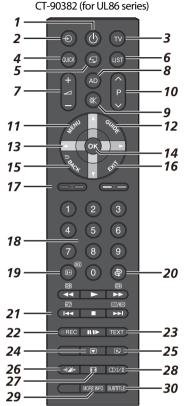
Do not combine a used, old battery with a new one or mix

battery types. Remove dead batteries immediately to prevent acid from leaking into the battery compartment. Dispose of them in accordance with instructions on page 95 of this manual

**Warning:** Batteries must not be exposed to excessive heat such as sunshine, fire or the like.

The performance of the remote control will deteriorate beyond a distance of five metres or outside an angle of 30 degrees from the centre of the television. If the operating range becomes reduced, the batteries may need replacing.

# The remote control



- 1 For On/Standby mode
- 2 To select external input sources
- 3 To select TV Mode
- 4 To access Quick Menu
- 5 To access the "TOSHIBA PLACES" Top Page When network is not connected, an error message will be displayed.
- 6 To access the analogue or digital Channel List
- 7 To alter the TV volume
- 8 Switch the Audio Description On/Off
- 9 To mute the TV sound
- **10** To change programme positions To change TEXT pages
- 11 On-screen Menus
- 12 To display the digital on-screen Programme Guide
- 13 When using menus, the arrows move the cursor on the screen up, down, left or right
- 14 Press OK to confirm your selection
- 15 To return to previous Menu

- 16 To exit menus
- 17 Colour buttons: Text and interactive service control buttons
- 18 Number buttons
- 19 To display on-screen information
  To access the index page in Text mode
- 20 To return to previous programme position

### 21 When in TV mode:

# When in IV mode: ②/≅X Analogue time display

## When in Text mode:

To reveal concealed

To hold a wanted page

To enlarge text display size

(4)/(1) To select a page while viewing a normal picture

#### When using Programme Guide:

−24 hours
 +24 hours
 −1 page
 +1 page

# During Playback: ➤ To PLAY

To STOP

IIII TO PAUSE/STEP

To SKIP-BACK

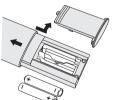
TO REWIND

TO FAST FORWARD

TO SKIP-FORWARD

- 22 To record DTV programmes
- 23 To call up text services
- 24 Picture still
- 25 To access Media Player Menu
- 26 Selectable Picture preferences
- 27 Widescreen viewing
- 28 ∭∏ Stereo/bilingual transmissions
- 29 To access More Information Menu
- **30** Digital Subtitles or Analogue TEXT Subtitle pages if available

# Inserting batteries and effective range



Remove the back cover to reveal the battery compartment and make sure the batteries are inserted the proper way. Suitable battery types for this remote are AAA. IEC R03 1.5V.

Do not combine a used, old battery with a new one or mix battery types. Remove dead batteries immediately to

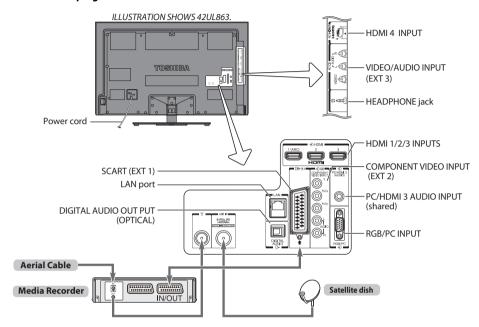
prevent acid from leaking into the battery compartment. Dispose of them in accordance with instructions on page 95 of this manual.

**Warning:** Batteries must not be exposed to excessive heat such as sunshine, fire or the like.

The performance of the remote control will deteriorate beyond a distance of five metres or outside an angle of 30 degrees from the centre of the television. If the operating range becomes reduced, the batteries may need replacing.

# **Connecting external equipment**

Before connecting any external equipment, turn off all main power switches. If there is no switch, remove the mains plug from the wall socket.



## Aerial cables:....



"F-type"

Connect the aerial to the socket on the rear of the television. If you use a decoder and/or a media recorder, it is essential that the aerial cable is connected through the decoder and/or through the media recorder to the television.

#### Satellite cable:

Connect the LNB from the satellite dish to the **SATELLITE ANTENNA** socket on the TV. You can receive TV, radio, interactive TV, and HD TV with clear reception.

# 



Connect the media recorder **IN/OUT** socket to the television. Connect the decoder **TV** socket to the television.

Before running **Auto Tuning**, put your decoder and media recorder to **Standby**.

The phono sockets alongside the **COMPONENT VIDEO INPUT** sockets will accept L and R audio signals.

The Digital Audio Output socket enables the connection of a suitable surround sound system.

NOTE: This output is always active.

HDMI® (High-Definition Multimedia Interface) is for use with a DVD decoder or electrical equipment with digital audio and video output. For acceptable video or PC signal formats through the HDMI terminals, see page 97.

PC format signals will also be displayed.

**NOTE:** Although this television is able to connect to HDMI equipment, it is possible that some equipment may not operate correctly.

**LAN** port is used to connect the TV to your home network. This TV can play digital content stored on a DLNA CERTIFIED™ product with server function.

A wide variety of external equipment can be connected to the back of the television; therefore, the relevant owner's manuals for *all* additional equipment must be referred to for exact instructions.

If the television automatically switches over to monitor external equipment, return to normal television by pressing the desired programme position button. To recall external equipment, press € to select between DTV, EXT 1, EXT 2, EXT 3, HDMI 1, HDMI 2, HDMI 3, HDMI 4, PC or ATV.

When the external input mode is selected while viewing DTV mode, the SCART socket does not output video/audio signals.

# Connecting an HDMI® or DVI device to the HDMI input

The HDMI input on your television receives digital audio and uncompressed digital video from an HDMI source device or uncompressed digital video from a DVI (Digital Visual Interface) source device

This input is designed to accept HDCP (High-Bandwidth Digital-Content Protection) programme material in digital form from EIA/CEA-861-D-compliant [1] consumer electronic devices (such as a set-top box or DVD player with HDMI or DVI output). For acceptable video signal formats, see page 97.

#### NOTE:

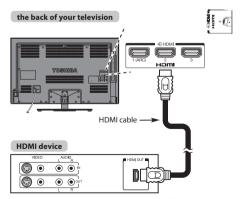
- Some early HDMI equipment may not work properly with your latest HDMI TV, due to the adoption of a new standard. Please unplug your HDMI cable first and then try setting the INSTAPORT™ and Enable Content Type options to "Off".
   Your early HDMI source should operate properly with your television. See page 83.
- Supported Audio format: Linear PCM, Dolby Digital (AC-3), sampling rate 32/44.1/48kHz.

## To connect an HDMI device

Connect an HDMI cable (type A connector) to the HDMI terminal.

For proper operation, it is recommended that you use an HDMI cable with the HDMI Logo (HITH).

- If your HDMI connection is capable of 1080p and/or your television is capable of refresh rates greater than 50Hz, you will need a Category 2 cable. Conventional HDMI/DVI cable may not work properly with this model.
- HDMI cable transfers both video and audio. Separate analogue audio cables are not required (see illustration).
- · See "HDMI 3 Audio" on page 82.

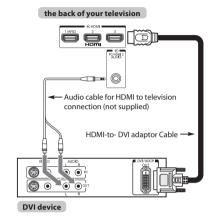


To view the HDMI device video, press the ⊕ button to select HDMI 1, HDMI 2, HDMI 3 or HDMI 4 mode.

# To connect a DVI device

Connect an HDMI-to-DVI adaptor cable (HDMI type A connector) to the HDMI 3 terminal and audio cables to the PC/HDMI 3 (AUDIO) socket (see illustration).

- The recommended HDMI-to-DVI adaptor cable length is 6.6 ft (2m).
- An HDMI-to-DVI adaptor cable transfers video only.
   Separate analogue audio cables are required.
- · See "HDMI 3 Audio" on page 82.



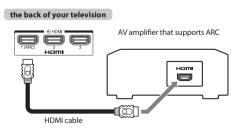
#### NOTE:

To ensure that the HDMI or DVI device is reset properly, it is recommended that you follow these procedures:

- When turning on your electronic components, turn on the television first, and then the HDMI or DVI device.
- When turning off your electronic components, turn off the HDMI or DVI device first, and then the television.

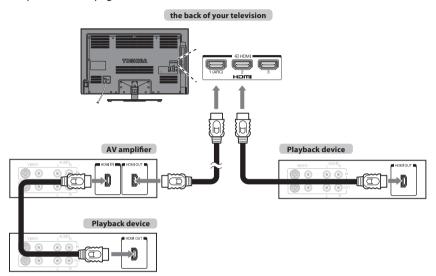
# HDMI's ARC (Audio Return Channel) feature

This feature enables the audio signal of the TV to be sent to the AV amplifier via the HDMI cable. It will not be necessary to connect a cable from the audio output of the TV to the audio input of the AV amplifier to reproduce the audio received from the tuner of the TV through the AV amplifier.



# **REGZA-LINK connection**

You can control the basic functions of connected audio/video devices using the television's remote control if you connect a REGZA-LINK compatible AV amplifier or playback device. For an explanation of setup and operations, see pages 86–88.



For the setup shown above, you will need three HDMI cables.

#### NOTE

- If several devices are connected, the REGZA-LINK feature may not operate properly.
- For proper operation, it is recommended that you use HDMI cables with the HDMI Logo (**HDMI**).
- This function is available when one PC and one AV amplifier are connected separately. However, it may not operate properly if the PC is connected via the AV amplifier.

#### Before controlling the device(s):

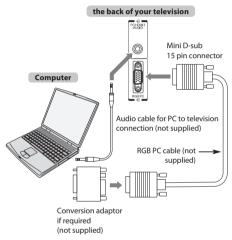
- After completing the above connections, set the REGZA-LINK Setup menu as you desire (see page 86).
- The connected devices must also be set. For details, see the operation manual for each device.
- The REGZA-LINK feature uses CEC technology as regulated by the HDMI standard.
- This feature is limited to models incorporating Toshiba's REGZA-LINK. However, Toshiba is not liable for those operations. Refer to individual instruction manuals for compatibility information.

# **Connecting a computer**

With either an RGB/PC or an HDMI connection, you can watch your computer's display on the television and hear the sound from the television's speakers.

## To connect a PC to the RGB/PC terminal

When connecting a PC to the RGB/PC terminal on the television, use an analogue RGB (15-pin) computer cable and a PC audio cable for the PC/HDMI 3 (AUDIO) socket. Select PC from the PC/HDMI 3 Audio options in the AV Connection menu located in the Setup menu.



To use a PC, set the monitor output resolution on the PC before connecting it to the television. For acceptable PC signal formats, see page 96.

To display the optimum picture, use the PC setting feature (see page 80).

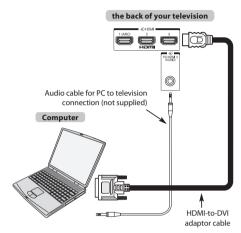
#### NOTE:

- The PC audio input terminal on the television is shared with the HDMI 3 analogue audio input terminal (see page 82).
- Some PC models cannot be connected to this television.
- An adaptor is not needed for computers with a compatible mini D-sub15-pin terminal.
- Depending on the DVD's title and the specifications of the PC on which you are playing the DVD-Video, some scenes may be skipped or you may not be able to pause during multi-angle scenes.
- A band may appear at the edges of the screen or parts of the picture may be obscured. This is due to scaling of the picture by the set, it is not a malfunction.
- When PC input mode is selected, some of the television's features will be unavailable e.g. Colour System in the Setup/System Setup menu.
- Some PC models may output unique signals that the television may be unable to detect (see page 96).

# To connect a PC to the HDMI terminal

When connecting a PC to the HDMI terminal on the television, use an HDMI-to-DVI adaptor cable and an analogue audio cable.

If connecting a PC with an HDMI terminal, use an HDMI cable (type A connector). A separate analogue cable is not necessary.



For acceptable PC and video signal formats, see page 97.

#### NOTE:

- · The edges of the images may be hidden.
- If connecting a certain PC model with a unique PC signal, the PC signal may not be detected correctly.

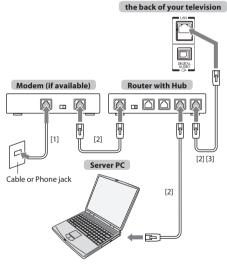
# Connecting a home network

The LAN port allows your Toshiba TV to connect to your home network. You can use this revolutionary home entertainment networking system to access photo, video and audio files that are stored on a DLNA CERTIFIED™ server and play/display them on your TV.

## NOTE:

- If you connect to a shared network outside your home, it is advisable to use a router. Always use DLNA CERTIFIED™ products in private network environments.
- If you use a hub or switch to connect the TV to your home network, you may not be able to use the automatic setup and will have to manually set up the network address. See page 46.
- If you use a router with built-in DHCP functionality, use the automatic setup. Manual setup may not work.
- If you connect the TV and PC directly, use a crossover LAN cable.

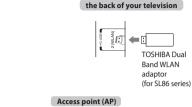
# To connect the TV to a home network - Wired

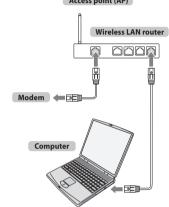


- [1] Coaxial or telephone cable (depending on your modem type)
- [2] Standard LAN cable
- [3] Do NOT connect a phone jack directly to the TV's LAN port.

# To connect the TV to a home network with an internet connection - Wireless

Please refer to "Wireless Setup" section on page 43.

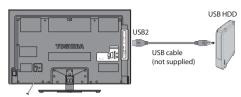




NOTE: UL86 is the adaptor built-in.

# Setting up the USB HDD (for UL86 series)

## To connect an USB HDD (not supplied)



NOTE: For available USB HDD information, see "Product Information" on the website.

## To register an USB HDD

When you connect a new USB HDD to the USB 2 port on the TV, the following screen will appear.



Press ◀or ▶ to select **Yes** and press **OK**.

The formatting confirmation window will appear.

Press **⋖** or **▶** to select **Yes** and press **OK**.

Registration will start.

If you want to name the USB HDD, press ◀ or ▶ to select Yes and press OK.

See page 47 to input characters.

The maximum number of characters is 10.

If you prefer the default name "USB HDD X," select **No** and press **OK**.

The Device List will appear.

| Device List<br>Device Name | Registered   | Connected               |
|----------------------------|--------------|-------------------------|
|                            | Registered   | Connected               |
| USB HDD 1                  |              |                         |
| USB HDD 2                  |              |                         |
| USB HDD 3                  | $\checkmark$ | $\overline{\mathbf{V}}$ |
|                            |              |                         |
|                            |              | <u> </u>                |
|                            |              |                         |
|                            |              | <u> </u>                |
|                            |              |                         |

You can now use registered HDDs.

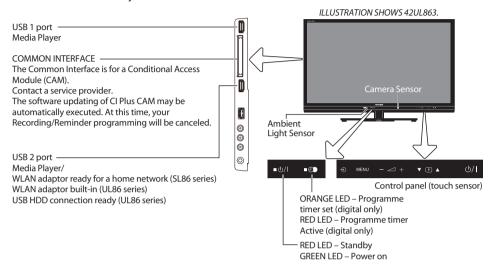
While in the list mode, The following key operations are available:

#### NOTE:

- To disconnect a USB HDD from the TV, follow the procedures for "Removing the Device" in "Setting a USB HDD," including unregistered devices.
- When using a USB HDD, if necessary, perform the settings and operations shown in "Setting a USB HDD" (see page xx).
- Connect the USB HDD to the USB 2 port.
   Recording and playback cannot be performed if connected to the USB 1 port.
- Up to 8 USB hard disks can be registered to this TV.
- Recorded programs saved on the USB HDD can only be viewed on this TV. They cannot be viewed when connected to another TV (including the same model of TV), a PC, or other device.
- You cannot connect a USB HDD to the TV via a USB hub.
- If an HDD is re-registered, it will not be formatted.
- When the USB HDD is formatted, all the data stored on the HDD will be deleted.

# **Controls and input connections**

A wide variety of external equipment can be connected to the input sockets on the side of the television. While all the necessary adjustments and controls for the television are made using the remote control, the buttons on the television may be used for some functions.



# Switching on

If the RED LED is not lit, check that the mains plug is connected to the power supply and press O on the remote control; it may take a few moments. The GREEN LED will be lit.

To put the television into Standby, press  $\odot$  on the remote control. To view the television, press  $\odot$  again. The picture may take a few seconds to appear.

### For energy saving:

We recommend that you use the television with the factory settings. The factory settings are for energy saving. Unplugging the mains plug will cut energy use to zero for all televisions. This is recommended when the television is not being used for a long time, e.g. when on holiday. Reducing the brightness of the screen will reduce energy use. Energy efficiency cuts energy consumption and thus saves money by reducing electricity bills.

**NOTE:** Putting the television into standby mode will reduce energy consumption, but will still draw some power.

# Using the remote control

Press **MENU** on the remote control to display the menu.

The five initial topics icons will appear. As each symbol is selected by pressing ◀or ▶ on the remote control. Press ▲▼◀▶ to enter a sub menu and then enter a further sub menu to see any options.

**NOTE:** The same menu is displayed in DTV (Digital TV) and ATV (Analogue TV) modes; however, where some items are not available in a mode, they will appear greyed out.

To use the option, press ▲ and ▼ on the remote control to move up and down and press ◀ or ▶ to select your desired setting. Follow the on-screen instructions. The functions of each menu are described in detail throughout the manual.

# Using the controls and connections

To alter the volume gently touch –  $\triangle$  +.

Touch **MENU** and  $\nabla \mathbf{P} \triangle$ , –  $\triangle$  + to control the sound and picture options.

Touch **MENU** to finish.

The Media Player feature provides access to photo, movie and music files stored on an USB storage device that is connected via the USB 1 or USB 2 port or on a network device.

**NOTE:** The USB socket has limited functionality and Toshiba can take no responsibility for damage to other connected equipment.

For SL86 series, the USB 2 socket has to be used with the "TOSHIBA Dual Band WLAN Adaptor WLM-10U2" in order to access a wireless network

This feature is available only when the "TOSHIBA Dual Band WLAN Adaptor" is used.

To select an external input, touch 🐿 until the appropriate input source is selected.

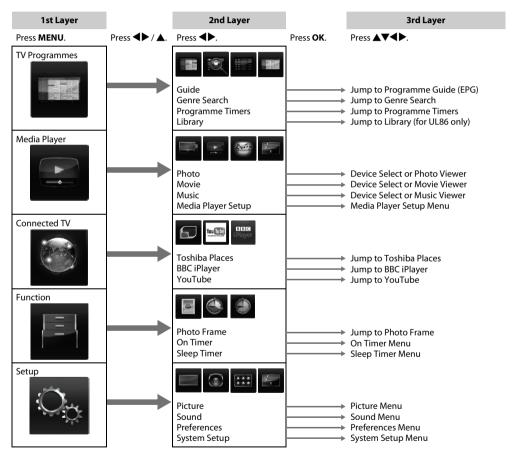
Please always refer to the owner's manual of the equipment to be connected for full details.

**NOTE:** Interactive video games that involve shooting a "gun" at an on-screen target may not work with this TV.

# MENU structure

To open the main menu (illustration below), press **MENU** on the remote control or on the TV control panel.





# **Startup Application**

Before switching on the television, set your decoder and media recorder, if applicable, to **Standby**. To set up the television, use the buttons on the remote control as detailed on page 8. 9.

- Press the **O** button. The **Menu Language** screen will appear. This screen will appear the first time that the television is switched on and each time **Reset TV** is selected.
- Press ▲▼◀▶ to select the menu language and press **OK**.
- Highlight Country and press 

  or 

  to select. The television is now set to tune the stations for your country.

| Quick Setup                 |   |         |   |  |  |
|-----------------------------|---|---------|---|--|--|
| Country                     | 4 | English | - |  |  |
| Primary Subtitle Language   |   | English |   |  |  |
| Secondary Subtitle Language |   | English |   |  |  |
| Primary Audio Language      |   | English |   |  |  |
| Secondary Audio Language    |   | English |   |  |  |

#### NOTF:

- The following display menus will differ slightly according to the country you selected.
- If there is not a country that you want to select in the list, select Others.
- Press **OK**, and the **Location** screen will appear.



- Press ◀or ▶ to select **Home** or **Store**. For normal home use, select **Home**.
- Press OK, and the TV Mounting screen will appear, press ◀ or ▶ to select Stand or Wall.



Press **OK**, and the **AutoView** screen will appear, press

✓ or ➤ to select **Yes** or **No**.



Press OK. If the Ant/Cable/Satellite screen appears, press ▲ or ▼ to select Antenna, Cable or Satellite and then press OK to check (✓).



If DVB-C is not supported in your area, **Cable** will not be displayed.

- When you select Antenna or Cable, follow steps 10 to 13
- · When you select Satellite, skip to step 14.
- When you select Antenna (or Cable) and Satellite, the Satellite Settings startup screen will appear automatically after completing the Antenna (or Cable) scan and pressing OK.
- Select Next and press OK. The Auto Tuning start up screen will appear with the option to select between DTV and ATV, DTV or ATV if available. Use ◀or ▶ to select the appropriate mode.
- Press ▼ or ▲ to highlight **Start Scan**, and then press

The television will start to search for available **DTV** and/or **ATV** channels. The progress bar will indicate the scan status.

You must allow the television to complete the search.



When the search is complete, the television will automatically select position one.

The **Auto Tuning** screen will display the total number of services found.

**NOTE:** If there are multiple channels with the same channel number, a confirmation window will appear. Press ◀ or ▶ to select the one you prefer.

- Press ◀or ▶ to view the **DTV** (digital channel) or **ATV** (analogue channel) lists.
- Use ▼ or ▲ to move through the list to select a channel, and then press **OK** to view.

In ATV mode, some areas may receive duplicate stations. There may not be a clear picture or the signal may be weak, so the station order can be changed using ATV Manual Tuning.

**REMEMBER:** Press **TV** at any time to select between **ATV** and **DTV** (DTV Ant TV/Radio/Text, DTV Cable TV/Radio/Text, DTV Sat TV/Radio/Text if available) modes

**NOTE:** The time will be set automatically by transmission but can be advanced or decreased by using **Local Time Setting** in the **DTV Settings** screen.

Select Next and press OK. The Satellite Settings screen will appear. From this window, you can add the satellites that you wish to tune and configure detailed settings for each one individually. See "Satellite settings" on page 20.

| Satellite Settings       |                               |      |     |  |  |
|--------------------------|-------------------------------|------|-----|--|--|
| Switch T                 | Switch Type                   |      | ne  |  |  |
| LNB Pov                  |                               | 0    | n   |  |  |
| No.                      | Satellite                     | Dish | LNB |  |  |
| 1                        | ASTRA 19.2°E                  | 1    | 1   |  |  |
| 2                        |                               |      |     |  |  |
| 3                        |                               |      |     |  |  |
| 4                        |                               |      |     |  |  |
| Dish Type :<br>Lower LOF | (MHz) : 9600<br>(MHz) : 10600 | one  |     |  |  |

Highlight Done and press OK.

If your satellite dish is movable, the following **Positioning** screen will appear.

| Positioning<br>Satellite : ASTI | RA 19.2°E |         |             |     |
|---------------------------------|-----------|---------|-------------|-----|
| Transponder                     |           | 1/83 (  | 10743 MHz I | H)  |
| Go to 0                         |           |         |             |     |
| Go to Stored F                  | Position  |         |             |     |
| Step Size                       |           |         |             |     |
| Positioning                     |           | ∢W      |             | E⊁  |
|                                 |           |         |             |     |
| ı                               | Store P   | osition | •           |     |
| Signal Level                    | _         |         |             | 30% |

Press ▲ or ▼ to highlight **Positioning**, and then press ◀ or ▶ to find the dish position with the strongest signal level.

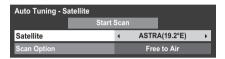
Press ▲ or ▼ to highlight **Store Position** and press **OK** to store the dish position. Repeat steps 14 and 15 for the next satellite as necessary.

If your satellite dish is not movable, the **Positioning** screen will not appear.

Adjust the dish position manually for the maximum Signal Level strength.

Highlight Done and press OK.

If the reception testing completes successfully, the **Auto Tuning** startup screen will display.



You can select Scan Option from Free to Air and All.

Press ▲ or ▼ to highlight **Start Scan**, and then press **OK**.

The television will start to search for available **DVB-S** channels. The progress bar will indicate the scan status.

When the search is complete, the **Auto Tuning** results screen will display the total number of services found.

Use ▲ or ▼ to move through the list to select a channel, and then press **OK** to view.

### **PLEASE NOTE**

The **Quick Setup** menu can also be accessed at any time from the **Setup/System Setup** menu.

## Ant/Cable/Satellite (if available)

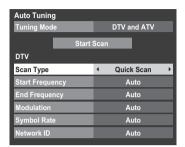
From this menu, you can set the RF input configuration.

- Press **MENU** / **♦** to highlight **Setup** icon.
- Press ▲ / ◀▶ to highlight System Setup icon.
- Press **OK** to display **System Setup** menu.
- Press ▲ or ▼ to select Ant/Cable/Satellite and press ◀ or ▶ to select Antenna, Cable or Satellite.

NOTE: When you attempt to change the Ant/Cable/ Satellite setting, a warning message will appear followed by PIN entry (if PIN has been set) and a prompt for Auto Tuning. 5

When Ant/Cable/Satellite is set to Cable, the following setting options will be provided in the Auto Tuning screen.

Press  $\triangle$  or  $\nabla$  to select an item, and then press  $\triangleleft$  or  $\triangleright$  to select your desired option.



With the exception of **DTV Scan Type** and **DTV Modulation** items, all of the following items will have 2 operating modes. The first is **Auto** where the values for each item are preset by the system. The second is an **Input** mode where you will be able to enter a single value in place of the pre-set value. If no channel is currently tuned and the **Input** state is chosen, a system default value will be shown. However, if a channel is currently tuned when the item is accessed, the value of the current channel will be displayed.

## **DTV Scan Type:**

This item determines whether a **Quick Scan** or a **Full Scan** will be executed.

The **Quick Scan** is a simplified version of the **Full Scan** that is designed to complete in less time.

## **DTV Start Frequency:**

This sets the frequency from which the scan will begin.

## **DTV End Frequency:**

This sets the frequency at which the scan will end.

#### **DTV Modulation:**

You can choose from five QAM modulation settings.

#### **DTV Symbol Rate:**

This is the baud rate (KS/s) of the scan.

#### DTV Network ID:

This is the Network ID to be utilized for the scan. This item is greyed out when DTV Scan Type is set to "Full Scan".

# Satellite Settings

From the System Setup menu, you can add the satellites that you wish to tune and configure detailed settings for each one individually.

#### To add a satellite:

- Press **MENU** / **◄►** to highlight **Setup** icon.
- Press ▲/◀▶ to highlight System Setup icon.
- Press **OK** to display **System Setup** menu.
- Press ▲ or ▼ to select Satellite Settings and press

| Satellite Settings Switch Type |                               | No   | one |
|--------------------------------|-------------------------------|------|-----|
| LNB Pov                        | ver                           | C    | n   |
| No.                            | Satellite                     | Dish | LNB |
| 1                              | ASTRA 19.2°E                  | 1    | 1   |
| 2                              |                               |      |     |
| 3                              |                               |      |     |
| 4                              |                               |      |     |
| Dish Type :<br>Lower LOF       | (MHz) : 9600<br>(MHz) : 10600 | one  |     |

- Press ▼ to highlight a new line to add an another satellite and press **OK**.
- Press ▼ until the required satellite is displayed and press **OK**.

#### To delete a satellite:

- In the **Satellite Settings** menu, press ▲ or ▼ to select the satellite you want to delete.
- Press the **RED** button. A confirmation window will appear.
- Press ◀ or ▶ to select **Yes** and press **OK**.

**NOTE:** It is not possible to delete position No.1.

## To edit the satellite settings:

- In the **Satellite Settings** menu, press ▲ to highlight **Switch Type**.
- Press ◀or ▶ to select None, ToneBurst, DiSEqC

  2way or DiSEqC 4way as your satellite switch type.
- Press ▼ to highlight LNB Power and press ◀ or ▶ to select On or Off.

## To add a transponder:

In the **Satellite Settings** menu, press ▲ or ▼ to highlight the line you want to edit and press **OK**.

| 1 | ASTRA 19.2°E | 1 | 1 |
|---|--------------|---|---|
|   |              |   |   |

Press the GREEN button. The Transponder Settings screen will appear.

| Transponder Settings |           |              |             |      |   |
|----------------------|-----------|--------------|-------------|------|---|
|                      | Frequency | Polarisation | Symbol Rate | S/S2 |   |
| 1                    | 10743     | Н            | 22000       | S    |   |
| 2                    | 10773     | Н            | 22000       | S    |   |
| 3                    | 10788     | ٧            | 22000       | S    |   |
| 4                    | 10817     | V            | 22000       | S    |   |
| 5                    | 10832     | Н            | 22000       | S    |   |
| 6                    | 10847     | ٧            | 22000       | S    |   |
| 7                    | 10861     | Н            | 22000       | S    |   |
| 8                    | 10876     | V            | 22000       | S    | v |

Press ▲ to highlight a new line.

| Transp | Transponder Settings |              |             |      |   |  |
|--------|----------------------|--------------|-------------|------|---|--|
|        | Frequency            | Polarisation | Symbol Rate | S/S2 |   |  |
| 76     | 12640                | V            | 22000       |      |   |  |
| 77     | 12662                | Н            | 22000       | S    |   |  |
| 78     | 12669                | ٧            | 22000       | S    |   |  |
| 79     | 12692                | Н            | 22000       | S    |   |  |
| 80     | 12699                | ٧            | 22000       | S    |   |  |
| 81     | 12721                | Н            | 22000       | S    |   |  |
| 82     | 12728                | ٧            | 22000       | S    |   |  |
| 83     |                      |              |             |      | • |  |

4 Press OK.



Edit each parameter as required and press **OK**. See page 21.

| _  |       |   |       |    |
|----|-------|---|-------|----|
| 83 | 12731 | Н | 22000 | S2 |

## To delete a transponder:

- In the **Transponder Settings** menu, press ▲ or ▼ to highlight the line you want to delete.
- 2 Press the **RED** button.

## To edit the Transponder Settings:

- In the **Transponder Settings** menu, press ▲ or ▼ to highlight the line you want to edit and press **OK**.
- Press ◀or ▶ to select Frequency, Polarisation,
  Symbol Rate or S/S2, and set the item using the
  number buttons if necessary.
- Press **OK** to save your settings.
- Repeat steps 1 through 3 for other lines.
- Press **BLUE** to finish editing and return to Satellite Settings.

Press **GREEN** to cancel any edits that were made this time

Press **YELLOW** to reset all transponder settings to their initial default settings.

# To select the Dish Type:

- In the **Satellite Settings** menu, press ▲ or ▼ to select the required satellite line, and then press **OK**.
- Press ◀or ▶ to highlight **Dish** and press the **GREEN** button.



Press ◀or ▶ to select **Dish Type**. You can select **Movable** or **Fixed** as the Dish Type.

## To select the LNB Settings:

- In the Satellite Settings menu, press ▲ or ▼ to select the required satellite line, and then press OK.
- Press ◀or ▶ to highlight LNB and press the GREEN button

| LNB Settings<br>LNB : 1 |       |
|-------------------------|-------|
| Lower LOF               | 9750  |
| Upper LOF               | 10600 |
|                         |       |

Press ▲ or ▼ to select Lower LOF or Upper LOF and input the appropriate frequencies.

# **Auto Tuning**

**NOTE:** As new services are broadcast, it will be necessary to re-tune the television in order to view them.

Auto Tuning will completely re-tune the television and can be used to update the channel list. It is recommended that Auto Tuning is run periodically to ensure that all new services are added. All current channels and settings, i.e. locked channels, will be lost.

- Press MENU / ◀▶ to highlight Setup icon.
- Press ▲ / ◀▶ to highlight System Setup icon.
- Press **OK** to display **System Setup** menu.
- Press ▲ or ▼ to select Auto Tuning and press OK.



# For DTV/ATV Tuning:

A screen will appear warning that previous programmes and settings will be deleted.



Press ◀ or ► to select **DTV and ATV**, **DTV** or **ATV**, if available, then highlight **Start Scan** and press **OK** to continue with the **Auto Tuning**.

**NOTE:** If you have selected "Others" for the **Country** field in the **System Setup** menu, and selected a tuning mode other than "**DTV**", choose the optimum ATV broadcasting system (B/G, I, D/K or L).

The television will start to search for all available DTV and/or ATV services

# You must allow the television to complete the search.

When the search is complete, the **Auto Tuning** screen will display the services found.

#### For Satellite Tuning:

A screen will appear warning that previous programmes and settings will be deleted.



Press ▲ or ▼ to highlight Satellite and then press ◀ or ► to select the desired satellite (No.1 Sat ~ No.4 Sat or All).

You can select **Free to Air** or **All** as the Search Option. Highlight **Start Scan** and press **OK** to continue with the **Auto Tuning**.

When the search is complete, the  $\bf Auto\ Tuning\ screen$  will display the services found.

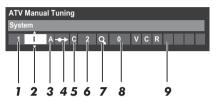
Use ▼ or ▲ to move through the list to select a channel, and then press **OK** to view.

# **ATV Manual Tuning**

# **Tuning**

The television can be tuned-in manually using **ATV Manual Tuning**. For example, you might use the feature if the television cannot be connected to a media recorder/decoder with a SCART lead or when you want to tune-in a station on another **System**.

Use  $\blacktriangleleft$  and  $\blacktriangleright$  to move across the screen and select any of the ATV Manual Tuning options. Then use  $\blacktriangle$  or  $\blacktriangledown$  to adjust the settings.



#### 1 Position

The number to be pressed on the remote control to tune the channel.

#### 2 System

Specific to certain areas.

#### 3 Colour System

Factory set to Auto, should only be changed if problems are experienced, i.e. NTSC input from external source.

## 4 Skip

Set Skip to On ( $\stackrel{\bullet}{\bullet}$ ) or Off ( $\stackrel{\bullet}{\bullet}$ ) for the selected channel. See page 24.

### 5 Signal Class

The channel classification.

#### 6 Channel

The channel number on which a station is being broadcast.

# 7 Search

Search up and down for a signal.

## 8 Manual Fine Tuning

Only used if interference/weak signal is experienced. See page 91.

#### 9 Station

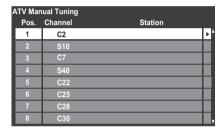
Station identification. Use the  $\triangle \nabla$  and  $\triangleleft \triangleright$  buttons to enter up to seven characters.

To allocate a position on the television for a decoder and media recorder: turn the decoder on, insert a pre-recorded film in the media recorder, press PLAY, and then manually tune.

In the **System Setup** menu, press ▼ to highlight **ATV**Manual Tuning and press **OK**.



Use ▲ or ▼ to highlight the desired position. We suggest **Pos. 0** for a media recorder.



Different Channel numbers may be displayed.

- Press **OK** to select. If the channel chosen for the media recorder is set to skip, Skip should be removed before storing.
- Press ➤ to select System and use ▲ or ▼ to change if required.



- Then press ▶ to select **Search**.
- Press ▲ or ▼ to begin the search. The search symbol will flash.



- Each signal will show on the television. If it is not your media recorder, press ▲ or ▼ again to restart the search.
- When your media recorder signal is found, press ▶ to move along to Station. Use ▲, ▼, ◀ and ▶ to put in the required characters, e.g. VCR.



- Press **OK** to save.
- Repeat for each **position** you want to tune, or press **BACK** to return to the list of channels and select the
  next number to tune.
- Press **EXIT** when you have finished.

## PLEASE NOTE

This television has direct channel entry if the channel numbers are known.

Select the **ATV Manual Tuning** screen in **Step 3**. Enter the **Position number**, the **System**, then **C** for standard (terrestrial) channels or **S** for cable channels and the **Channel** number. Press **OK** to save.

## Skip

To prevent certain channels from being viewed, positions can be skipped.

- Select ATV Manual Tuning from the System Setup menu.
- Use ▲ or ▼ to highlight the position to be skipped and press **OK** to select.

|      | ual Tuning | 04-11   |             |
|------|------------|---------|-------------|
| Pos. | Channel    | Station | т.          |
| 1    | C2         |         | <u> </u>  • |
| 2    | S10        |         |             |
| 3    | C7         |         |             |
| 4    | S40        | ABC1    |             |
| 5    | C22        | ABC1    |             |
| 6    | C25        |         |             |
| 7    | C28        |         |             |
| 8    | C30        |         | ₩,          |

Press ► to select Skip.

- Use ▲ or ▼ to turn **Skip** on. Press **OK**.
  - on the screen indicates a skipped position.



Press **BACK** and repeat from **Step 2** or press **EXIT**.

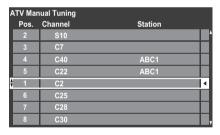
Each position has to be *individually* selected. To turn **Skip** off, repeat the procedure for each position.

Skipped positions *cannot* be selected by **P^** and **P^** or by the controls on the television but *can* still be accessed by the number buttons on the remote control.

# Sorting positions

Channels may be moved and saved to the position of your choice.

- Select ATV Manual Tuning from the System Setup menu.
- With the list of channels showing, use ▲ or ▼ to highlight the channel you want to move and press ▶.



- Use ▲ or ▼ to move through the list to your preferred position. As you do so, the other channels will move to make room.
- 4 Press ◀ to save your move.

Repeat as necessary, and then press EXIT.

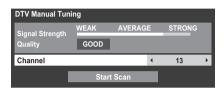
# **DTV Manual Tuning**

**NOTE:** The content of this menu varies depending on the DTV input (Antenna, Cable, or Satellite) that is currently selected.

# **Manual Tuning**

This feature is available for service engineers or can be used for direct channel entry if the multiplex channel is known.

Select **DTV Manual Tuning** from the **System Setup** menu and press **OK**.



- Enter the multiplex number using the number buttons or use ◀or ▶ to adjust the number up or down.
- Highlight **Start Scan**, and then press **OK**. The television will automatically search for that multiplex.

| DTV Manual Tuning |      |                          |      |  |  |
|-------------------|------|--------------------------|------|--|--|
|                   |      | 0 New Channels - Total 6 |      |  |  |
| New               | Pos. | Name                     | Type |  |  |
|                   |      | ABC ONE                  |      |  |  |
|                   | 2    | ABC TWO                  |      |  |  |
|                   | 7    | ABC THREE                |      |  |  |
|                   | 40   | ABC NEWS 24              |      |  |  |
|                   | 51   | ABCi                     |      |  |  |

When the multiplex is found, any channels that are not currently in the channel list will be added and the channel information at the top of the screen will be updated.

Repeat as necessary. Press EXIT to finish.

# Manual Tuning for DVB-C

When Ant/Cable/Satellite is set to Cable, DTV Manual Tuning items are as follows:

Frequency – input a specific frequency to be scanned

**Modulation** – choose from one of five QAM modulation options

**Symbol Rate** – input a specific baud rate (KS/s) to be used for the manual scan

Highlight Start Scan, and then press OK.

# **Manual Tuning for DVB-S**

When Ant/Cable/Satellite is set to Satellite, DTV Manual Tuning items are as follows:



Use ▲ or ▼ to highlight an item (Satellite, Transponder, Frequency, Symbol Rate, Polarisation or Search Option), and then press ◀ or ▶ to select the required option.

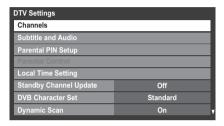
Highlight Start Scan, and then press OK.

# **DTV Settings**

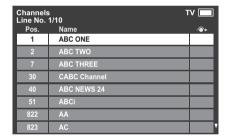
# Channels (Antenna/Cable)

The channel order may be changed to suit your personal preference.

- Select **DTV Settings** from the **System Setup** menu and press **OK**.
- Select Channels and press OK.



For your convenience, you can jump to specific places in the list by one of two methods.



**Line Number Jump** — Use the **number buttons** (0-9) to input the line number you want to select, and then press **OK**.

Name Jump — Press ◀◀ or ▶► to jump to the next station name with a different initial letter

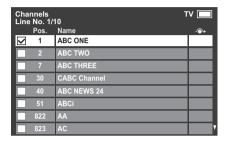
It is also possible to change the Position number of a particular channel.

**Renumber** — Press the **RED** button to renumber the highlighted channel. Edit the channel number using the **number buttons** and press **OK**. If the position number you input already exists, a confirmation window will appear.



Move — Press the GREEN button to activate the Move feature. Use the ▲ or ▼ buttons to select the channel you wish to move and press OK to check. If you wish to move multiple channels at once, select another channel and check in the same way. Repeat as necessary.

Once all desired channels have been checked, use the ▲ or ▼ buttons to place the focus at the position to which you wish to move the channels. The channels will be inserted above the highlighted channel. Press the **GREEN** button to execute the move.



**Sort** — Press the **YELLOW** button. A confirmation window will appear. Press **◀** or **▶** to select **Yes** and press **OK**.



The **Sorting Type** selection window will appear.



Press  $\triangleleft$  or  $\triangleright$  to set the sorting type.

A-Z Sort Station name order (A to Z)

Number Position No. order (numerical sequence)

Press ▼ to highlight **Sort** and press **OK**.

# Channels (Satellite)

- Select **DTV Settings** from the **System Setup** menu and press **OK**.
- 2 Select Channels and press OK.

The satellite channel list will appear.

| Channels<br>Line No. 4/1200 |              | Satellite T | v 🔲        |
|-----------------------------|--------------|-------------|------------|
| Pos.                        | Pos. Station |             | <b>-</b> ◆ |
| 1                           | DDD          | 19.2°E      |            |
| 2                           | AB           | 19.2°E      |            |
| 3                           | E            | 19.2°E      | -●+        |
| 801                         | BBC          | 22.5°E      | <b>-</b> ◆ |
| 802                         | BB           | 22.5°E      |            |
| 803                         | BA           | 22.5°E      |            |
| 822                         | AA           | 25.6°E      |            |
| 823                         | AC           | 25.6°E      | <b></b> '  |

For your convenience, you can edit and sort your channel list.

**Line Number Jump** — Use the **number buttons** (0-9) to input the line number you want to select, and then press **OK**.

**Station Letter Jump** — Press ◀◀ or ▶▶ to jump to the next station name with a different initial letter.

**Satellite Jump** — Press **I** ← or **>** → to jump to the next channel on a different Satellite.

**Renumber** — Same as Antenna/Cable channels. See page 26.

**Move** — Same as Antenna/Cable channels. See page 26.

**Sort** — Press the **YELLOW** button. A confirmation window will appear. Press **◀** or **▶** to select **Yes** and press **OK**.

The **Sort** menu will appear.



Group — Press ◀or ▶ to select All or By Satellite.

**Sorting Type** — Press **◄** or **▶** to set the sorting type.

A - Z Station name order (A to Z)

**Channel Number** Position No. order (numerical sequence)

Preset Order — Press ◀ or ▶ to set Yes or No.

This item is displayed when Country is set to Germany, and only applies to the Astra 19.2°E satellite.

Press ▼ to highlight **Sort** and press **OK**.

# **Standby Channel Update**

If the **Standby Channel Update** is set to **On**, when the TV is in standby mode, Digital Tuning is automatically executed and any new channels are saved

- Select **DTV Settings** from the **System Setup** menu and press **OK**.
- Press ▼ to select **Standby Channel Update** and use ◀ or ▶ to select **On**.

### **DVB Character Set**

This feature allows you to manually select the character set (**Standard** = Table 0, **West** = Table 5 or **Latin alphabet 9**) to be used for DVB-C or DVB-T channels.

- Select **DTV Settings** from the **System Setup** menu and press **OK**.
- Press ▼ to select DVB Character Set and use ◀ or ▶ to select Standard. West or Latin alphabet 9.

# **Dynamic Scan**

If the broadcast information has changed in your DVB-T receiving area, the TV screen will display the message

"Broadcast information has changed. Would you like to rescan now?". Please follow the message. If you do not wish for the TV to detect changes and prompt you to rescan, you should set this feature to "Off".

- Select **DTV Settings** from the **System Setup** menu and press **OK**.
- Press ▼ to select **Dynamic Scan** and use ◀ or ▶ to select **On**.

# **Location setting**

You can select either **Home** or **Store** mode. **Home** is recommended for normal home use. Select **Store** when using the television for displaying in a shop, etc.

Select Location from the System Setup menu.

Press ◀or ▶ to select Home or Store.

# **Analogue** switch-off

This is a **digital** television which is integrated to allow the use of both **digital** and **analogue** services. However, during the lifetime of this set it is very likely that **analogue** services will be switched off to allow for more new **digital** services.

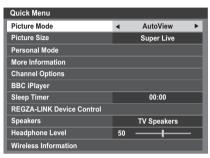
This 'switch-off' will happen in a number of phases, which will be advertised in your area well in advance. It is recommended that at each phase the television is re-tuned to ensure that existing and new **digital** services can be viewed without disruption.

# General controls

## **Ouick Menu**

**Quick Menu** helps you access some options quickly, such as **Picture Mode, Picture Size, More Information, Sleep Timer** 

Press **QUICK** to display the **Quick Menu** and use  $\triangle$  or  $\bigvee$  to select the option.



**NOTE: Quick Menu** items are different depending on the current mode.

## Quick menu item example

| Mode                             | Quick menu item                  | Description  |
|----------------------------------|----------------------------------|--------------|
| When viewing a TV                | Picture Mode                     | See page 34. |
| programme or pictures from the   | Picture Size                     | See page 32. |
| external input                   | Personal Mode                    | See page 84. |
|                                  | More Information                 | See page 74. |
|                                  | Channel Options                  | See page 76. |
|                                  | BBC iPlayer                      | See page 59  |
|                                  | Sleep Timer                      | See page 72. |
|                                  | REGZA-LINK Device<br>Control     | See page 87. |
|                                  | Speakers                         | See page 86. |
|                                  | Headphone Level                  | See page 31. |
|                                  | Wireless Information             | See page 45. |
| When using EPG                   | Genre Colour                     | See page 75. |
|                                  | EPG Update/<br>Cancel EPG Update | See page 74. |
| Media Player                     | Sort                             | See page 65. |
| (Photo Multi View,<br>List View) | Interval Time                    | See page 64. |
| List Hell,                       | Repeat                           | See page 64. |
|                                  | Shuffle                          | See page 68. |
|                                  | Device Information               | See page 65. |
|                                  | Wireless Information             | See page 45. |

| Mode                         | Quick menu item | Description  |
|------------------------------|-----------------|--------------|
| Photo Frame<br>(Full Screen) | Picture         | See page 34. |
|                              | Picture Size    | See page 32. |
|                              | Personal Mode   | See page 84. |

# Selecting positions

To select a position, use the numbered buttons on the remote control

Positions can also be selected using **P^** and **P^**.

To display on-screen information such as position, input mode or stereo/mono signal, press (i+). Press again to cancel.

# The Time Display - analogue only

The time display facility allows the current (text service) time to be seen on the television screen.

Press ()/(EX) whilst watching a normal television broadcast to see the time display from the broadcaster. It will remain on screen for about 5 seconds.

**NOTE:** This display may not be available in some cases.

# Stereo and Bilingual transmissions

## For DTV programmes

For stereo or dual mono broadcasts, press  $\mathbb{O}[]/[]$  and use  $\P$  or  $\blacktriangleright$  to select settings.

| Mode Display | Pressing <b>▶</b>     |
|--------------|-----------------------|
|              | Stereo → Left → Right |
| O Dual mono  | Dual 1 → Dual 2       |
| Mono         | -                     |
| Multichannel | -                     |

For multi-audio track broadcasts, press \( \)\[\]\[\]\ repeatedly to change the audio language (see "Audio languages" on page 77).

### For ATV programmes

If stereo or dual language broadcasts are transmitted, the word Stereo or Dual will appear on the screen each time positions are changed, disappearing after a few seconds. If the broadcast is not in stereo, the word Mono will appear.

Stereo... Press ()]/] to select Stereo or Mono.

**Bilingual...** Bilingual transmissions are rare. If they are transmitted, the word **Dual** will be displayed. Choose the required programme number, and if the word **Dual** appears, press [] [] [ to select **Dual 1, Dual 2** or **Mono**.

# **Sound controls**

## Volume controls and sound mute

#### Volume

Press  $\neq$  or  $\leq$  to adjust the volume.

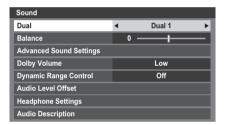
#### **Sound Mute**

Press once to turn the sound off and again to cancel.

### Dual

If a programme or film is being broadcast with a soundtrack in more than one language, the **DUAL** feature allows selection between them.

- Press MENU / ◀▶ to highlight Setup icon.
- Press ▲ / ◀▶ to highlight **Sound** icon and press **OK**.
- Press ▲ or ▼ to select **Dual** and press ◀ or ▶ to choose between **Dual 1** or **Dual 2**.



## **Balance**

In the Sound menu, press ▲ or ▼ to select Balance, and then press ◀ or ▶ to emphasize left or right speaker balance.

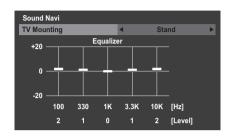
## **Sound Navi**

You can customize current sound mode settings. Select the appropriate mode in accordance with the installation location of the TV (**Stand** or **Wall**) and adjust the equalizer on-screen as desired.

- In the Sound menu, press ▲ or ▼ to select Advanced Sound Settings and press OK.
- Press ▲ or ▼ to select **Sound Navi** and press **OK**.



- Press ◀or ➤ to select either Stand or Wall depending on how your TV is installed, and then press the RED button.
- Press ◀ or ▶ to select the frequency range you want to adjust from the equalizer window, and then press ▲ or ▼ to adjust the level.

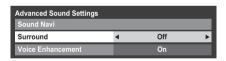


Repeat step 4 for other frequencies.

## Surround Settings

Surround and Voice Enhancement help to create an enhanced surround sound experience with deep, rich bass from stereo sound sources. Your TV's audio will sound fuller, richer, and wider.

- In the Sound menu, press ▲ or ▼ to select Advanced Sound Settings and press OK.
- Press ▲ or ▼ to select **Surround** and press ◀ or ▶ to select **Off, Spatial** or **Cinema**.



# **Dolby Volume®**

This feature provides a consistent sound volume regardless of programmes, channels or input sources.

- In the **Sound** menu, press **△** or **▼** to select **Dolby Volume**.
- Press ◀ or ▶ to select Low, High or Off.

#### NOTE:

- The Dolby Volume setting influences the Dynamic Range Control and Digital Audio Output settings.
- If Dynamic Range Control is set to On, this feature will be disabled.

# Dynamic Range Control

This feature allows control of audio compression for some digital TV programmes (MPEG-1 and MPEG-2 audio programmes are not supported).

- In the **Sound** menu, press ▲ or ▼ to select **Dynamic** Range Control.
- Press ◀or ▶ to select **On** or **Off**.

**NOTE:** This feature is disabled when **Dolby Volume** is set to **Low** or **High**.

# **Audio Level Offset**

Sometimes there can be large changes in volume when switching from a DTV 5.1ch to a DTV 2ch, an ATV channel, or an external input. Using the **Audio Level Offset** feature reduces these volume differences.

- Set the volume level usually used when watching a DTV 5.1ch programme.
- Tune to a channel which is DTV 2ch, ATV or an external input.
- In the **Sound** menu, press ▲ or ▼ to select **Audio**Level Offset and press OK.
- Press ▲ or ▼ to select an option, and then use ◀ or ► to adjust the volume level.



### NOTE:

- The available item changes depending on the current input source. For example, while watching a DTV 2ch programme, only **DTV 2ch** is available and the other two items are greyed out in the menu. This allows you to easily adjust according to each condition.
- When watching a DTV 5.1ch programme, this feature is not available.

# **Headphone Settings**

This setting is used to set the sound output when headphones are

| Speaker<br>Link | Headphone  | Speakers                              |
|-----------------|--|---------------------------------------|
| On              | Sound is output<br>(∠ − + is available.)                   | No sound                              |
| Off             | Sound is output<br>(Headphone level<br>menu is available.) | Sound is output (∠ − + is available.) |

- In the **Sound** menu, press ▲ or ▼ to select **Headphone Settings** and press **OK**.
- Press ▲ or ▼ to select Speaker Link and use ◀ or ► to select On or Off.
- If you select **Off**, then highlight **Headphone Level** and use **◄** or **▶** to adjust the headphone sound.

| Headphone Settings |     |
|--------------------|-----|
| Speaker Link       | Off |
| Headphone Level    | 50  |

# **Audio Description**

Audio Description is an additional narrative sound track for visually impaired individuals to understand and enjoy the story line more fully. The letters AD will be displayed in the channel banner when programmes contain AD content.

- In the Sound menu, select Audio Description and press OK.
- Press ▲ or ▼ to select **Audio Description**, and then press ◀ or ▶ to select **On**.

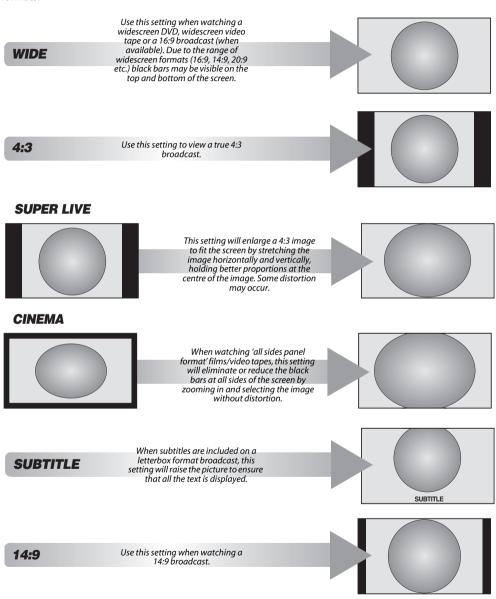


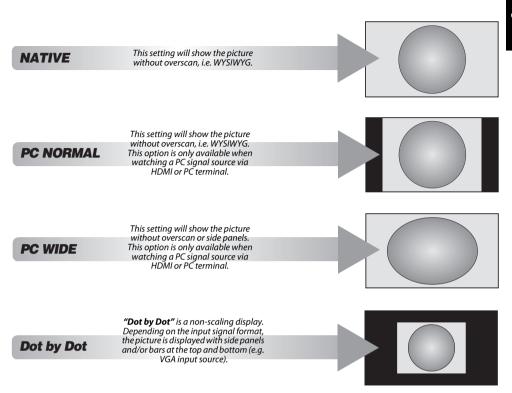
The **AD** button on the Remote can also be used to toggle the **Audio Description** feature between On and Off.

To adjust the level of the audio description sound to the main sound, highlight Mixing Level and use ◀or
►.

# Widescreen viewing

Depending on the type of broadcast being transmitted, programmes can be viewed in a number of formats.

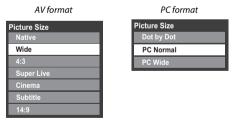




Press the F button on the Remote to display the list of available widescreen formats.

Press the button repeatedly to highlight the required format.

The Quick Menu feature can also be used to select Picture Size.



Using the special functions to change the size of the displayed image (i.e. changing the height/width ratio) for the purposes of public display or commercial gain may infringe on copyright laws.

# **Picture controls**

Most of the picture controls and functions are available in both **digital** and **analogue** modes. *PLEASE NOTE: Features not available will be greyed out.* 

## Picture Mode

This television offers the choice of personalising the picture style.

AutoView, Dynamic, Standard, Hollywood Night, Hollywood Day, Store, Game and PC are preset options and affect many features/settinas within the television.

#### NOTE:

- Because the AutoView mode automatically adjusts picture settings based on ambient light conditions and input signal content, the Auto Brightness Sensor and Expert Mode menus are greyed out when it is selected.
- Store mode is only available when Location is set to Store.
- Game mode is available in external input mode (other than aerial input). When you select Game mode, suitable widescreen formats will be selected.
- PC mode is available in RGB/PC input mode or HDMI input mode.
- Press MENU / ◀▶ to highlight Setup icon.
- Press ▲ / ◀▶ to highlight Picture icon and press OK to display Picture menu.
- Press ▲ or ▼ to select Picture Mode.

| Picture      |          |             |            |
|--------------|----------|-------------|------------|
| Picture Mode | <b>∢</b> | Dynamic     | •          |
| Reset        |          |             |            |
| Backlight    | 100      |             | <b>→</b> ] |
| Contrast     | 100      |             | <b>→</b> ] |
| Brightness   | 0        | <del></del> | -1         |
| Colour       | 0        | <del></del> | -1         |
| Tint         | 0        | <del></del> | -1         |
| Sharpness    | 0        | <del></del> | <u> </u>   |

Press ◀or ▶ to select the picture mode you prefer and press **OK**.

**NOTE:** The picture mode you select affects the current input only. You can select a different picture mode for each input.

## Picture preferences

You can customize current picture mode settings as desired. For example, while selecting "Dynamic", if you change the following items, such as Backlight, Contrast, Brightness, Colour, Tint, Sharpness and the Advanced Picture Settings items, your new settings are saved for "Dynamic" picture mode.

- In the Picture menu press ▲ or ▼ to select either Backlight, Contrast, Brightness, Colour, Tint or Sharpness and press OK.
- 2 Press ◀ or ▶ to adjust the settings.

### Reset

This feature resets all picture settings to the factory settings except **Picture Mode**.

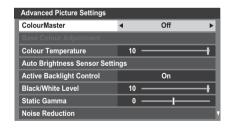
- In the **Picture** menu, press ▲ or ▼ to select **Reset** and press **OK**.
- A confirmation message will appear. Press ◀or ▶ to select **Yes** and press **OK**.

## ColourMaster

When **ColourMaster** is set to **On**, it allows the 'Base Colour Adjustment' feature to become available.

- In the Picture menu, press ▲ or ▼ to select

  Advanced Picture Settings and press OK.
- Press ▲ or ▼ to select ColourMaster.



Press ◀ or ▶ to select On or Off, and then press OK.

# **Base Colour Adjustment**

The **Base Colour Adjustment** feature allows the adjustment of individual colours to suit personal preference. This can be useful when using an external source.

- In the Advanced Picture Settings menu, press ▲ or
  ▼ to select Base Colour Adjustment and press OK.
- Press ▲ or ▼ to select an option, and then press ▶ to move to the adjustment window.

| Hue | Saturation | Brightness                            |                                       |
|-----|------------|---------------------------------------|---------------------------------------|
| 0   | 0          | 0                                     | •                                     |
| 0   | 0          | 0                                     |                                       |
| 0   |            | 0                                     |                                       |
| 0   |            | 0                                     |                                       |
| 0   |            | 0                                     |                                       |
| 0   |            | 0                                     |                                       |
|     |            | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |

Press ◀or ► to select Hue, Saturation or Brightness, and then press ▲ or ▼ to adjust the settings as required.

|       | Hue | Saturation | Brightness |
|-------|-----|------------|------------|
| ☐ Red | 0   | 0          | -1         |
|       |     |            |            |

4 Press **BACK** to return to the previous menu.

To return to the factory settings, select **Reset** and press **OK**.

# Colour Temperature

**Colour Temperature** increases the 'warmth' or 'coolness' of the picture by increasing the red or blue tint.

- In the Advanced Picture Settings menu, press ▲ or
  ▼ to select Colour Temperature and press OK.
- Press **⋖**or **>** to adjust the level.

The adjustment range is 0 (warm) to 10 (cool).

**NOTE:** If **Picture Mode** is set to **AutoView**, the adjustment range is -5 to +5.

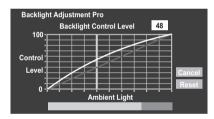
# **Auto Brightness Sensor Settings**

When the Auto Brightness Sensor is activated, it will automatically optimise the backlighting levels to suit ambient light conditions.

- In the Advanced Picture Settings menu, press ▲ or ▼ to select Auto Brightness Sensor Settings and press OK.
- Press ◀ or ▶ to select **On** and press **OK**.



- Press ▲ or ▼ to select Backlight Adjustment Pro and press OK.
- The **Backlight Adjustment Pro** window will appear. Press **OK** again to display the adjustment window.
- Press ◀ or ▶ to select a point and press ▲ or ▼ to adjust the level.



6 Press **OK** to fix the adjustment.

To cancel the adjustment when selecting a point, select **Cancel** and press **OK**.

To return the adjustments of all points to the factory defaults, select **Reset** and press **OK**.

# **Active Backlight Control**

When **Active Backlight Control** is activated, it will automatically optimize the backlighting levels for dark scenes.

- In the Advanced Picture Settings menu, press ▲ or
  ▼ to select Active Backlight Control.
- Press ◀ or ▶ to select **On** or **Off**.

# Black/White Level

**Black/White Level** increases the strength of dark areas of the picture to improve the definition.

- In the Advanced Picture Settings menu, press ▲ or
  ▼ to select Black/White Level.
- Press ◀or ▶ to adjust the level. The effect depends on the broadcast and is most noticeable on dark colours.

## Static Gamma

The static gamma feature allows you to adjust the levels of black in the picture.

- In the Advanced Picture Settings menu, press ▲ or
  ▼ to select Static Gamma.
- Press ◀or ▶ to adjust the level.

## MPEG NR - Noise Reduction

When watching a DVD, the compression may cause some words or picture elements to become distorted or pixelated.

Using the MPEG NR feature reduces this effect by smoothing out the edaes.

- In the **Advanced Picture Settings** menu, press ▲ or ▼ to select **Noise Reduction** and press **OK**.
- Press ▼ to select MPEG NR.



Press ◀or ▶ to select Low, Middle, High or Off to suit your preference.

# **DNR - Digital Noise Reduction**

**DNR** allows you to 'soften' the screen representation of a weak signal to reduce the noise effect.

- Select **DNR** from the **Noise Reduction** menu.
- Use ◀or ► to select Low, Middle, High, Auto or Off.
  The differences may not always be noticeable (for the best result use lower settings as picture quality can be lost if the setting is too high).

## Resolution+

The **Resolution+** feature allows you to adjust the clarity levels for your desired picture settings.

- In the Advanced Picture Settings menu, press ▲ or
  ▼ to select Resolution+ and press OK.
- 2 In the **Resolution**+ field, select **On**.



Press ▲ or ▼ to highlight **Level**, and then press ◀ or ▶ to adjust the level.

#### NOTF:

- This feature may not work properly depending on the content
- Adjustable range varies according to the Picture Mode you set.
- Noise may appear in the picture depending on the device connected to the TV (e.g. a device with a specific enhancer function).

## **Active Vision M100**

This feature will reduce picture blur without decreasing image brightness or adding flicker.

- In the Advanced Picture Settings menu, press ▲ or
  ▼ to select Active Vision M100.
- Press ◀ or ▶ to select Smooth, Standard or Off.

**NOTE:** When **Picture Mode** is set to **Game**, this feature will be grayed out and automatically set to **Off**.

# **Motion Detection Range**

This feature is to set the range of the adjustment of movement in the double-scan processing. If you feel uncomfortable in motion picture, select **Standard**.

- In the Advanced Picture Settings menu, press ▲ or
  ▼ to select Motion Detection Range.
- Press ◀ or ▶ to select **Wide** or **Standard**.

**Wide** — Double-scan effect for higher-speed motion picture

Standard — Stabilized double-scan effect

**NOTE:** When **Active Vision M100** is set to **Off**, this feature will be grayed out.

## Resetting the advanced picture settings

This feature allows you to reset the current **Advanced Picture**Settings to the default values.

- In the **Advanced Picture Settings** menu, press ▲ or
  ▼ to select **Reset**
- Press OK.

## **Expert Picture Settings**

#### **Test Pattern**

When the test pattern is on screen, you can navigate in the Picture submenus and adjust picture settings without removing the image.

When you move to a non-Picture menu, or close the menus, regular video will be restored.

- In the Picture menu, press ▲ or ▼ to select Expert
  Picture Settings and press OK to display Expert
  Picture Settings menu.
- Press ▲ or ▼ to select **Test Pattern**.
- Press **◄** or **▶** to select **On**.
- Press EXIT to close.

#### **RGB Filter**

This feature individually enables or disables the red, green, and blue components of the picture to allow for more accurate adjustment of each colour.

- In the Expert Picture Settings menu, press ▲ or ▼ to select RGB Filter, and then press OK.
- Press ▲ or ▼ to select Red, Green or Blue to adjust.
- Press ◀or ▶ to select **On**.
- Press ▲ or ▼ to select Colour or Tint, and then press ◀ or ▶ to adjust.
- Press EXIT.

**NOTE:** It is not possible to turn off all three colours simultaneously.

#### Colour Decoding

If you view DVDs with this TV, the Colour Decoding option may be set to ensure the colourimetry reproduction.

**NOTE:** The modes excluding **Auto** (**BT601** and **BT709**) are to convert an irregular signal output from the DVD etc. with incorrect colour to the optimum state. If **BT601** or **BT709** is selected with a normal signal received, the colour may not be correctly displayed. This feature should normally be set to **Auto**.

- In the Expert Picture Settings menu, press ▲ or ▼ to select Colour Decoding.
- Press ◀ or ▶ to select Auto, BT601 or BT709.

## **White Balance-Window Display**

This feature displays a special Window Pattern to be used when adjusting white balance with a measuring device.

- In the Expert Picture Settings menu, press ▲ or ▼ to select White Balance and press OK.
- Press ▲ or ▼ to select Window Display and press ◀ or ▶ to select On.
- Press **EXIT** to close.

## White Balance-Setting Type

You can choose from two types of White Balance adjustment.

- In the Expert Picture Settings menu, press ▲ or ▼ to select White Balance and press OK.
- Press ▲ or ▼ to select Setting Type and press ◀ or ► to select 2P or 10P.

#### White Balance-2P White Balance

- Press ▼ to select 2P White Balance.
- Press ▲ or ▼ to select Red-Offset, Green-Offset,
  Blue-Offset, Red-Gain, Green-Gain, or Blue-Gain.
- Press ◀or ▶ to adjust.

#### White Balance-10P White Balance

- Press ▼ to select 10P White Balance.
- Press ▲ or ▼ to select IRE, Red, Green, or Blue.
- Press ◀or ▶ to adjust.

**NOTE:** The adjustments made for Red / Green / Blue are stored separately for each IRE setting. (There are ten IRE settings from 10 to 100.)

#### **Colour Calibration**

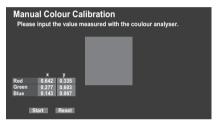
The aim of Colour Calibration is to measure and/or adjust the colour response (White Balance) of your LCD panel. Colour Calibration is used by various fields, such as gaming, photography, engineering, medical and more. In order to calibrate a display correctly, you need a colour analyzer **EODIS3-TS** (not supplied).

#### Apply Calibration

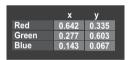
- In the Expert Picture Settings menu, press ▲ or ▼ to select Colour Calibration and press OK.
- Press ▲ or ▼ or to select **Apply Calibration** and press ◀ or ▶ to select **On**.

#### Manual Colour Calibration

In the Colour Calibration menu, press ▲ or ▼ to select Manual Color Calibration and press OK.



- Place the prove of the USB colour analyzer over the square on screen to measure.
- Input the value measured with the colour analyzer using the number buttons (0-9).



- Press ▲▼◀▶ and input the values to fill all RGByc matrix table.
- Highlight Start and press OK.

Please wait until you see "Manual Colour Calibration has been completed" on screen.

#### To return to factory setting

Highlight Reset and press OK.

#### Auto Colour Calibration

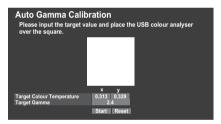
- In the Colour Calibration menu, press ▲ or ▼ to select Auto Colour Calibration and press OK.
- Place the prove of the USB colour analyzer over the square on screen and press **OK**.

#### Auto Colour Calibration will start.

Please wait until you see "Auto Colour Calibration has been completed."

#### **Gamma Calibration**

- In the Expert Picture Settings menu, press ▲ or ▼ to select Gamma Calibration and press OK.
- Press ▲ or ▼ to select **Apply Calibration** and press ◀ or ▶ to select **On**.
- Press ▲ or ▼ to select Auto Gamma Calibration and press OK.
- Input the target value and place the USB colour analyzer over the sequare on screen.



Highlight Start and press OK.

Auto Gamma Calibration will start.

Please wait until you see "Auto Gamma Calibration has been completed" on screen.

#### To return to factory setting

Highlight **Reset** and press **OK**.

### Resetting to the factory defaults

In the Expert Picture Settings menu, press ▲ or ▼ to select Reset and press OK.

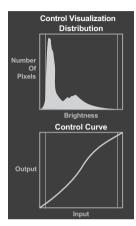
A confirmation screen appears.

Select Yes and press OK.

## Control Visualization

This feature displays the brightness histogram and control curve of the current video signal.

In the Picture menu, press ▲ or ▼ to select Control Visualization and press OK. The histogram window will appear.



Press **BACK** to return to the previous menu.

## Automatic Format (Widescreen)

When this television receives a true Widescreen picture and **Auto format** is **On**, it will automatically be displayed in Widescreen
format irrespective of the television's previous setting.

- Press MENU / ◀▶ to highlight Setup icon.
- Press ▲/◀▶ to highlight Preferences icon and press OK.
- Press ▲ or ▼ to select **Display Settings** and press **OK**.
- Press ▲ or ▼ to select Auto Format and press ◀ or ► to select On or Off.



## 4:3 Stretch

When **4:3 Stretch** is activated, the size switching system changes 4:3 programmes into full screen picture.

- In the **Preferences** menu, press ▲ or ▼ to select **Display Settings** and press **OK**.
- Press ▲ or ▼ to select **4:3 Stretch** and press ◀ or ▶ to select **On** or **Off**.

#### Blue Screen

When **Blue Screen** is selected, the screen will turn blue and the sound will be muted on analogue channels and external input modes when no signal is received.

**NOTE:** Some external input sounds may not be muted.

- In the **Preferences** menu, press ▲ or ▼ to select **Blue**Screen.
- Press ◀ or ▶ to select **On** or **Off**.

## **Picture Position**

The picture position may be adjusted to suit personal preference and can be particularly useful for external inputs.

- In the **Preferences** menu, press ▲ or ▼ to select **Display Settings** and press **OK**.
- In the **Display Settings** menu, press ▲ or ▼ to select **Picture Position**.



- Press **OK** to view the options available for the picture format that has been selected.
- Press ▲ or ▼ to select an option, and then ◀ or ▶ to adjust the settings.

The options differ depending on the currently selected widescreen format and the input signal.

In Cinema mode:



To return to the original factory settings, select **Reset** in the **Picture Position** menu and press **OK**.

## Picture still

This feature is used to hold a still image on the screen.



## **HDMI Information Display**

When the HDMI Information Display feature is On and you are watching an HDMI input source, pressing the [j+] button displays the HDMI signal information banner.

- In the **Preferences** menu, press ▲ or ▼ to select **HDMI Information Display**.
- Press **◄** or **▶** to select **On**.

HDMI signal information is as follows: Resolution, Scan Type, Frame Rate\*, Aspect, Bit Depth, Colour Space, RGB/YUV, Chroma Format, and Content Type (if available).

\* If the HDMI input source is interlaced, "Field Rate" will be displayed instead of "Frame Rate".

## Using your home network

This TV is a DLNA CERTIFIED™ Player and Renderer. This TV can play digital content stored on a DLNA CERTIFIED™ product with server function. If you want to use this TV as a DLNA CERTIFIED™ Player or Renderer, you will have to configure the network on your TV (see page 11).

If you want to use your home network, you will have to configure the network on your TV. (see page 11)

Change the network settings if necessary (see "Setting up the Network" on page 43).

#### When using a wireless home network:

#### Wireless Interoperability

The TOSHIBA Dual Band WLAN Adaptor is designed to be interoperable with any wireless LAN product that is based on Direct Sequence Spread Spectrum (DSSS)/Orthogonal Frequency Division Multiplexing (OFDM) radio technology, and is compliant to:

- The IEEE 802.11 Standard on Wireless LANs (Revision a/b/g/n), as defined and approved by the Institute of Electrical and Electronics Engineers.
- The TOSHIBA Dual Band WLAN Adaptor is intended for use with the SL86 series LCD TV's and should not be used with any other devices.

Use of the WLAN Adaptor in other USB products may result in damage to the WLAN Adaptor and or the equipment. Such use will void any warranty that may otherwise apply, and TOSHIBA will have no liability for any damage that may result from such use.

#### CAUTION

Bluetooth™ and Wireless LAN devices operate within the same radio frequency range and may interfere with one another. If you use Bluetooth™ and Wireless LAN devices simultaneously, you may occasionally experience a less than optimal network performance or even lose your network connection.

If you should experience any such problem, immediately turn off either your Bluetooth™ or Wireless LAN device.

Actual performance can vary, including lower wireless network capacity, data throughput rate, range and coverage.

Performance depends on many factors, conditions and variables, including distance from the access point, volume of network traffic, building materials and construction, operating system used, mix of wireless products used, interference and other adverse conditions.

#### Wireless LAN and your Health

Wireless LAN products, like other radio devices, emit radio frequency electromagnetic energy. The level of energy emitted by Wireless LAN devices, however, is far less than the electromagnetic energy emitted by wireless devices such as mobile phones.

Because Wireless LAN products operate within the guidelines found in radio frequency safety standards and recommendations, TOSHIBA believes Wireless LAN is safe for use by consumers. These standards and recommendations reflect the consensus of the scientific community and result from deliberations of panels and committees of scientists who continually review and interpret the extensive research literature.

In some situations or environments, the use of Wireless LAN may be restricted by the proprietor of the building or responsible representatives of the organization. Such restrictions may apply in environments where the risk of interference to other devices or services is perceived or identified as harmful.

If you are uncertain of the policy that applies to the use of wireless devices in a specific organization or environment, you are encouraged to ask for authorization to use the Wireless LAN device prior to turning on the equipment.

This Dual Band Wireless LAN Adaptor may be operated in the following countries:

|    | J              |    |               |
|----|----------------|----|---------------|
| AT | Austria        | IS | Iceland       |
| BE | Belgium        | LI | Liechtenstein |
| CH | Switzerland    | LT | Lithuania     |
| CY | Cyprus         | LU | Luxembourg    |
| CZ | Czech Republic | LV | Latvia        |
| DE | Germany        | MT | Malta         |
| DK | Denmark        | NL | Netherlands   |
| ES | Spain          | NO | Norway        |
| FI | Finland        | PL | Poland        |
| FR | France         | PT | Portugal      |
| GB | United Kingdom | SE | Sweden        |
| GR | Greece         | SI | Slovenia      |
| EE | Estonia        | SK | Slovakia      |
| HU | Hungary        | BG | Bulgaria      |
| IT | Italy          | RO | Romania       |
| IE | Ireland        | TR | Turkey        |

#### How to use this Dual Band Wireless LAN Adaptor

- If this device is going to be operated in the frequency range of 5.15 GHz to 5.35 GHz, it is restricted to indoor use.
- If this device is going to be operated for 802.11 b/g/n function in the frequency range of 2.454 GHz to 2.4835 GHz in France, it is restricted to indoor use.
- A general authorization is required for using this device outdoors or in public places in Italy.
- This device is NOT ALLOWED to be used in the geographical area within a radius of 20km from the centre of Ny-Alesund in Norway.

## Wireless LAN Information (for UL86 series)

Bluetooth™ and Wireless LAN devices operate within the same radio frequency range and may interfere with one another. If you use Bluetooth™ and Wireless LAN devices simultaneously, you may occasionally experience a less than optimal network performance or even lose your network connection.

If you should experience any such problem, immediately turn off either your Bluetooth  $^{\text{TM}}$  or Wireless LAN device.

Actual performance can vary, including lower wireless network capacity, data throughput rate, range and coverage. Performance depends on many factors, conditions and variables, including distance from the access point, volume of network traffic, building materials and construction, operating system used, mix of wireless products used, interference and other adverse conditions.

## Wireless LAN and your Health

Wireless LAN products, like other radio devices, emit radio frequency electromagnetic energy. The level of energy emitted by Wireless LAN devices, however, is far less than the electromagnetic energy emitted by wireless devices such as mobile phones.

Because Wireless LAN products operate within the guidelines found in radio frequency safety standards and recommendations, TOSHIBA believes Wireless LAN is safe for use by consumers. These standards and recommendations reflect the consensus of the scientific community and result from deliberations of panels and committees of scientists who continually review and interpret the extensive research literature.

In some situations or environments, the use of Wireless LAN may be restricted by the proprietor of the building or responsible representatives of the organization. Such restrictions may apply in environments where the risk of interference to other devices or services is perceived or identified as harmful.

If you are uncertain of the policy that applies to the use of wireless devices in a specific organization or environment, you are encouraged to ask for authorization to use the Wireless LAN device prior to turning on the equipment.

# When using the TV under wireless LAN environment:

- The function of all IEEE802.11 is not supported.
- · The ad-hoc mode is not supported.
- It is recommended to use IEEE 802.11a or IEEE 802.11n on 5 GHz for audio and SD video streaming.
- It is recommended to use IEEE 802.11n on 5 GHz for HD video streaming.
- It is recommended that the encoding rate for streaming video content is 20 Mbps or less.
- It is not recommended to use 2.4 GHz for audio and video streaming.
- Content playback may be interrupted by various surrounding interference.

## **Europe Statement**

This Built-in WLAN Module may be operated in below country:

| AT | Austria        | IS | Iceland       |
|----|----------------|----|---------------|
| BE | Belgium        | LI | Liechtenstein |
| СН | Switzerland    | LT | Lithuania     |
| CY | Cyprus         | LU | Luxembourg    |
| CZ | Czech Republic | LV | Latvia        |
| DE | Germany        | MT | Malta         |
| DK | Denmark        | NL | Netherlands   |
| ES | Spain          | NO | Norway        |
| FI | Finland        | PL | Poland        |
| FR | France         | PT | Portugal      |
| GB | United Kingdom | SE | Sweden        |
| GR | Greece         | SI | Slovenia      |
| EE | Estonia        | SK | Slovakia      |
| HU | Hungary        | BG | Bulgaria      |
| IT | Italy          | RO | Romania       |
| IE | Ireland        | TR | Turkey        |

- If this device is going to be operated in the frequency range of 5.15 GHz to 5.35 GHz, it is restricted to indoor use.
- If this device is going to be operated for 802.11 b/g/n function in the frequency range of 2.454 GHz to 2.4835 GHz in France, it is restricted to indoor use.
- A general authorization is required for using this device outdoors or in public places in Italy.
- This device is NOT ALLOWED to be used in the geographical area within a radius of 20km from the centre of Ny-Alesund in Norway.



## **Ukraine Statement**

Contains approved Built-in WLAN Module, model name: WLU5060-D4(ROHS), approved by CB "UkrCERTRADIO".

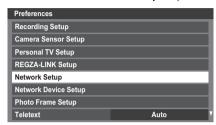


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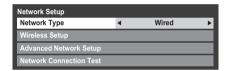
# Setting up the Network

You can select the Network Type.

- Press MENU / ◀▶ to highlight Setup icon.
- Press ▲ / ◀▶ to highlight Preferences icon and press **OK**.
- Press ▲ or ▼ to select **Network Setup** and press **OK**.



Press ▲ or ▼ to select **Network Type**, and then press



**NOTE:** If the Dual Band WLAN Adaptor is not connected, Wireless cannot be selected.

If you selected Wired, see "Advanced Network Setup" on page 45.

## Wireless Setup

#### NOTE (for SL86 series):

- This feature is grayed out when the Dual Band WLAN Adaptor is not connected or Network Type is set to Wired.
- When you insert or remove the wireless LAN adaptor, you must turn off your TV and unplug the power cord, and then plug and turn on again.
- Continued connection of AP (Access Point) is not guaranteed.
   The connection may be disconnected while watching TV.
- Do not remove the Dual Band WLAN Adaptor when Network Type is set to Wireless or wireless communication is active.

## There are 3 methods for Wireless Setup:

#### Easy Setup (WPS)

If the AP supports WPS, this method can be used.

 WPS is an industry standard designed to make connection of wireless LAN equipment and security setup easy. WPS will automatically configure all wireless settings.

Assisted Setup (setup by using the AP's notification information)

Network Name, Authentication, and Encryption are decided based on information from the AP. You will manually set the Security Key.

Manual Setup (manual input of all settings)

## Easy Setup using PBC (Push Button Configuration)

- In the **Preferences** menu, press ▲ or ▼ to select **Network Setup** and press **OK**.
- Press ▲ or ▼ to select Wireless Setup and press OK.
- Press ▲ or ▼ to select Easy Setup and press OK.



- Press ◀ or ▶ to select PBC.
- Press ▼ to highlight Start Scan and press OK.
- 6 Following the on-screen instructions, push the appropriate button on your AP.
- When a window reporting that the setup is complete appears, press **OK**.

## To cancel searching for the AP:

Press **BACK** while searching for the AP. A message will appear, and then press ◀ or ▶ to select **Yes** and press ok.

# Easy Setup using PIN (Personal Identification Number)

- In the **Preferences** menu, press ▲ or ▼ to select **Network Setup** and press **OK**.
- Press ▲ or ▼ to select Wireless Setup and press OK.
- Press ▲ or ▼ to select Easy Setup and press OK.
- Press ◀ or ▶ to select PIN.
- Press ▼ to select Start Scan and press OK.
- Press  $\triangle$  or  $\nabla$  to select the desired AP and press **OK**.

**NOTE:** Check the MAC address on the label of the AP or in the manual, and select your AP.

When the PIN code window appears, enter the displayed PIN into your AP, and then press **Next** to continue the PIN Setup. When a message displays to report that the setup is complete, press **OK**.

## To cancel searching for the AP:

Press **BACK** while searching for the AP. A message will appear; then, press ◀ or ▶ to select **Yes** and press **OK**.

## **Assisted Setup**

- In the **Preferences** menu, press ▲ or ▼ to select **Network Setup** and press **OK**.
- Press ▲ or ▼ to select Wireless Setup and press OK.
- Press ▲ or ▼ to select Assisted Setup and press OK.
- Press  $\triangle$  or  $\nabla$  to select the desired AP and press **OK**.

**NOTE:** Check the MAC address on the label of the AP or in the manual, and select your AP.

- Highlight **Security Key** and press **OK**. The Software Keyboard window will appear.
- Input the Security Key by using the Software Keyboard (see page 47). To save your setting, press the BLUE button.

#### NOTE:

- · The Security Key must adhere to these conditions:
  - TKIP/AES: 8-63 ASCII or 64 Hex characters
  - WEP: 5 or 13 ASCII or 10 or 26 Hex characters
- There is only one key ID to set for WEP encryption.
- Highlight **Done** and press **OK**.

**NOTE:** If **Network Name** is not displayed, see step 4 and 5 in **Manual Setup** below to set **Network Name** before pressing **Done**.

**NOTE:** Settings are not saved if **BACK** is pressed before **Done** is selected.

#### **Manual Setup**

- In the **Preferences** menu, press ▲ or ▼ to select **Network Setup** and press **OK**.
- Press ▲ or ▼ to select Wireless Setup and press OK.
- Press ▲ or ▼ to select Manual Setup and press OK.
- Press ▲ or ▼ to select Network Name and press OK. The Software Keyboard window will appear.
- Input the Network Name by using the Software Keyboard (see page 47). To save your setting, press the **BLUE** button.

- Press ▲ or ▼ to select Authentication, and then press ◀ or ▶ to select Open System, Shared Key, WPA-PSK or WPA2-PSK.
- Press ▲ or ▼ to select Encryption, and then press ◀ or ► to select None, WEP, TKIP or AES.

#### NOTE:

- Certain encryption types are only compatible with specific authentication types.
  - When Authentication is Open System, only WEP or None is compatible.
  - When Authentication is Shared Key, only WEP is compatible.
  - When Authentication is WPA-PSK or WPA2-PSK, only TKIP or AES is compatible.
- When incompatible Authentication/Encryption pairings are detected, a warning message will be displayed, and no connection attempt will be made until the incompatibility is resolved.
- There is only one key ID to set for WEP encryption.
- Press ▲ or ▼ to select **Security Key** and press **OK**.
- Input the Security Key by using the Software Keyboard (see page 47). To save your setting, press the **BLUE** button.

**NOTE:** This item is grayed out when **Encryption** is **None**.

Highlight **Done**, and then press **OK**.

**NOTE:** When **Encryption** is **None**, a message will appear. Press **⋖**or **▶** to select **Yes** and press **OK**.

**NOTE:** Settings are not saved if **BACK** is pressed before **Done** is selected.

#### Enhanced 11n

When **Enhanced 11n** is set to **On**, the Dual Channel (40MHz) feature is available.

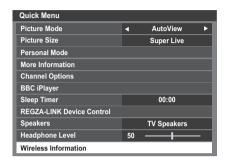
**NOTE:** In addition, some other optional 11n features will be enabled.

- In the Preferences menu, press ▲ or ▼ to select
  Network Setup and press OK. Highlight Wireless
  Setup and press OK.
- Press ▲ or ▼ to select Enhanced 11n, and then press ◀ or ▶ to select On.

#### Wireless Information

The settings configured in Wireless Setup can be confirmed.

- Press QUICK to open the Quick Menu.
  - Press  $\triangle$  or  $\nabla$  to select **Wireless Information** and press **OK**.



When the AP connection succeeds, a Wireless Information window will appear.

**NOTE:** Press the **RED** button to scan for all available APs

| APS.                     |   |
|--------------------------|---|
| Item                     | Description   |
| Status                   | Connected is displayed when the TV is connected with the AP.  Disconnected is displayed when the TV is not connected with the AP. |
| Signal                   | Connection signal strength with AP (STRONG/MEDIUM/WEAK)   |
| Speed                    | Link with AP  |
| Mode                     | Working mode (11a, 11b, 11g, 11n)   |
| Channel                  | Channel in use (1-165)  |
| Network Name             | SSID set  |
| Authentication           | Authentication set  |
| Encryption               | Encryption set  |
| Security Key             | Security Key set  |
| AP MAC<br>Address        | The AP's MAC address is displayed when the TV is connected with the AP.   |
| TV or USB MAC<br>Address | The MAC address of the TV or USB (Dual Band WLAN Adaptor) is displayed.   |
| DHCP                     | <b>Enabled</b> is displayed when using DHCP. <b>Disabled</b> is displayed when not using DHCP.                                    |
| IP Address               | The TV's IP address   |
| Subnet Mask              | Value of the Subnet Mask  |
| Default<br>Gateway       | Address of the Default GATEWAY  |
| DNS                      | Address of the DNS  |

**NOTE:** Even if an AP for IEEE 802.11n is used when **Encryption** is set to **WEP** or **TKIP**, the Speed value might be low. It is recommended that **Encryption** be changed to **AES** (see "Manual Setup" on see page 44).

#### Notes on wireless LAN environment:

- The function of all IEEE802.11 is not supported.
- The ad-hoc mode is not supported.
- It is recommended to use IEEE 802.11a or IEEE 802.11n on 5 GHz for audio and SD video streaming.
- It is recommended to use IEEE 802.11n on 5 GHz for HD video streaming.
- It is recommended that the encoding rate for streaming video content is 20 Mbps or less.
- It is not recommended to use 2.4 GHz for audio and video streaming.
- Content playback may be interrupted by various surrounding interference.

## **Advanced Network Setup**

#### NOTF:

- When the DHCP function of the router connected with this TV is On, you can set **Auto Setup** to **On** or **Off**. (This should usually be set to **On**.)
- When the DHCP function of the router is Off, set **Auto Setup** to **Off**, and set the IP Address manually.

## **IP Address Setup**

## **Auto Setup:**

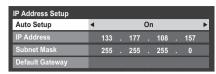
- In the **Preferences** menu, press ▲ or ▼ to select **Network Setup** and press **OK**.
- Press ▲ or ▼ to select Advanced Network Setup and press OK.

| Network Setup          |       |
|------------------------|-------|
| Network Type           | Wired |
| Wireless Setup         |       |
| Advanced Network Setup |       |

Press ▲ or ▼ to select IP Address Setup and press OK.



Highlight Auto Setup, and then press ◀or ► to select On.



**NOTE:** Other items will be grayed out when **Auto Setup** is set to **On**.

## Manual Setup:

- In the **Preferences** menu, press ▲ or ▼ to select **Network Setup** and press **OK**.
- Press ▲ or ▼ to select Advanced Network Setup and press OK.
- Press ▲ or ▼ to select IP Address Setup and press OK.
- Highlight Auto Setup, and then press ◀or ▶ to select Off.

| IP Address Setup |   |     |     |     |     |     |   |
|------------------|---|-----|-----|-----|-----|-----|---|
| Auto Setup       | 4 |     |     | Off |     |     | Þ |
| IP Address       |   | 133 | 177 |     | 108 | 157 |   |
| Subnet Mask      |   | 255 | 255 |     | 255 | 0   |   |
| Default Gateway  |   |     |     |     |     |     |   |

- Press ▲ or ▼ to select IP Address.
- Press ◀or ▶ to highlight the field you want to change, and then use the number buttons to input the IP address. To save the setting, press **OK**.

**NOTE:** IP address field numbers must be between 0 and 255. After each field number has been set, press **OK** to store the entire address. If the entire IP Address is invalid, a warning message will appear after **OK** is pressed.

Press ▲ or ▼ to select **Subnet Mask**, and edit in the same way as IP Address.

| IP Address Setup |     |     |     |     |     |  |
|------------------|-----|-----|-----|-----|-----|--|
| Auto Setup       |     |     | Off |     |     |  |
| IP Address       | 133 | 177 |     | 108 | 157 |  |
| Subnet Mask      | 255 | 255 |     | 255 | 0   |  |
| Default Gateway  |     |     |     |     |     |  |

Press ▲ or ▼ to select **Default Gateway**, and edit in the same way as IP Address.

**NOTE:** If you manually set the IP address, you must not use the same IP address for any other device. The IP address you use should be a private address.

## **DNS Setup**

**NOTE:** When the DHCP function of the router connected to this TV is Off, set Auto Setup to Off, and manually set the DNS address(es). Your internet service provider should have provided these to you.

#### Auto setup:

- In the **Preferences** menu, press ▲ or ▼ to select **Network Setup** and press **OK**.
- Press ▲ or ▼ to select Advanced Network Setup and press OK.
- Press ▲ or ▼ to select **DNS Setup** and press **OK**.
- Press ▲ or ▼ to highlight Auto Setup, and then press ◀ or ▶ to select On.

**NOTE:** Other items will be grayed out when **Auto Setup** is set to **On**.

#### Manual setup:

- In the Preferences menu, press ▲ or ▼ to select Network Setup and press OK.
- Press ▲ or ▼ to select Advanced Network Setup and press OK.
- Press ▲ or ▼ to select **DNS Setup** and press **OK**.
- Press ▲ or ▼ to select **Auto Setup**, and then press ◀ or ▶ to select **Off**.

| DNS Setup             |   |     |     |     |     |     |   |
|-----------------------|---|-----|-----|-----|-----|-----|---|
| Auto Setup            | 4 |     |     | Off |     |     | • |
| Primary DNS Address   |   | 133 | 177 |     | 108 | 157 |   |
| Secondary DNS Address |   | 255 | 255 |     | 255 |     |   |

- Press ▲ or ▼ to select Primary DNS Address.
- Press ◀ or ▶ to highlight the field you want to change, and then use the number buttons to input the Primary DNS Address. To save the setting, press OK.

**NOTE:** DNS address field numbers must be between 0 and 255. If you input an incompatible number and press **OK**, the field number will reset to the previous value.

Press ▲ or ▼ to select **Secondary DNS Address**, and edit in the same way as Primary DNS Address.

#### **MAC Address**

You can view the fixed MAC address for the TV and for the Dual Band WLAN Adaptor, if one is installed.

- In the **Preferences** menu, press ▲ or ▼ to select **Network Setup** and press **OK**.
- Press ▲ or ▼ to select Advanced Network Setup and press OK.
- Press ▲ or ▼ to select MAC Address and press OK.

## **Network Connection Test**

This function checks the Internet connectivity.

- In the Preferences menu, press ▲ or ▼ to select Network Setup and press OK.
- Press ▲ or ▼ to select **Network Connection Test** and press **OK**.

A message will appear to indicate if the connection was successful or if it could not be completed.

**NOTE:** The result of Network Connection Test does not always guarantee the connection. Depending on the situation, YouTube may not be able to be used.

#### To cancel the Network Connection Test:

Press **BACK** while searching for the Internet connection.

## Using the software keyboard

You can enter text by using the Software Keyboard. The Software Keyboard window will appear when you press **OK** on a field that accepts character input.

## To enter text using the software keyboard:

- Highlight the desired character on the on-screen software keyboard.
- Press OK.
- Repeat steps 1 and 2 until you have entered all desired text.
- Press the **BLUE** button to close the software keyboard and return to the previous screen.

**NOTE:** If **BACK** is pressed, changes are not saved and the software keyboard window is closed. The text will remain as it was before starting the keyboard.



#### Input operation on the remote control:

| Button            | Description  |  |  |  |
|-------------------|--|--|--|--|
| ок                | Inputs the selected character.   |  |  |  |
| 0-9               | Inputs the number directly.  |  |  |  |
| <b>A V 4 b</b>    | Moves the character highlight.   |  |  |  |
| <b>44&gt;&gt;</b> | Moves the cursor.  |  |  |  |
| 144               | Moves the cursor to the head of a character string.                        |  |  |  |
| ₩                 | Moves the cursor to the end of a character string.                         |  |  |  |
| RED               | Deletes 1 character to the left of the cursor.                             |  |  |  |
| GREEN             | Cycles through upper case, lower case, numbers, and symbols, if available. |  |  |  |
| YELLOW            | Chooses an accented version of the current letter, if applicable.          |  |  |  |
| BLUE              | Saves changes and closes the Software Keyboard window.                     |  |  |  |
| ВАСК              | Closes the Software Keyboard window without saving changes.                |  |  |  |

## **Network Device Setup**

## **External Control Setup**

This setup allows you to operate a home network-connected your TV from an external device.

#### Media Controller Setup

In the **Preferences** menu, press ▲ or ▼ to select **Network Device Setup** and press **OK**.



- Press ▲ or ▼ to select External Control Setup and press OK.
- Press  $\triangle$  or  $\nabla$  to select an option and press **OK**.

The Software Keyboard window will appear.

**User Name** — Input the User Name (to control the TV from the iPhone etc.) by using the on-screen software keyboard (see page 47). The maximum number of characters is 16.

Password — Input the Password (to control the TV from the iPhone etc.) by using the on-screen software keyboard (see page 47). The maximum number of characters is 16.

**NOTE:** Toshiba does not guarantee normal operation with all connected devices.

## **Media Renderer Setup**

### Terminology:

DMS: DLNA CERTIFIED™ Server
DMR: DLNA CERTIFIED™ Renderer
DMC: DLNA CERTIFIED™ Controller

The TV can be configured as a DMR. When operating as a DMR, the TV displays content provided by a DMS. The selection of the media is done by the DMC - the TV does not select the input. The TV can play photo, movie, or audio files when operating as a DMR.

#### Media Renderer

- In the **Preferences** menu, press ▲ or ▼ to select **Network Device Setup** and press **OK**.
- Press ▲ or ▼ to select Media Renderer Setup and press OK.
- Press ▲ or ▼ to select **Media Renderer**, and then press ◀ or ▶ to select **On** or **Off**.

## **Media Controller Setup**

You can limit which DMC can control this TV.

If Access Control is enabled, only those DMCs with a check will be allowed to control the TV.

- In the **Media Renderer Setup** menu, press ▲ or ▼ to select **Media Controller Setup** and press **OK**.
- Press ▲ or ▼ to select Access Control, and then press ◀ or ▶ to select On.
- Press ▲ or ▼ to select Select Media Controller and press OK.
- Press ▲ or ▼ to highlight the item you want to accept, and press OK. A check will appear in the box.

To remove the check, press **OK** again.

Press ► to highlight **Done** and press **OK**.

#### NOTE:

- · You can select up to 8 DMC devices.
- If you would not like to limit the DMCs for this TV, set Access Control to Off.
- Devices other than DMCs may be displayed in the list.
   Confirm the MAC address of the DMC and set it.

#### Maximum Volume Setup

This feature allows you to set the maximum volume of the TV when it receives volume operation commands from a DMC.

In the **Media Renderer Setup** menu, press ▲ or ▼ to select **Maximum Volume Setup**, and press ◀ or ▶ to adjust to the desired volume.

- The TV's remote control can set volume regardless of the value of Maximum Volume Setup.
- When DMR playback ends, the TV volume will return to the value in effect when DMR playback was started.

# Using the USB HDD Function (for UL86 series)

The USB HDD function can be used to record and view digital broadcast programmes. Read the precautions below before recording or viewing programmes using the USB HDD function.

#### NOTE

- Recorded programs saved on the USB HDD can only be viewed on this TV. They cannot be viewed when connected to another TV (including the same model of TV), a PC, or other device.
- · You cannot watch one channel while recording another.
- If the recording time to the USB HDD is too short, no data may be saved.
- You cannot record video input signals on the USB HDD.
- Not all types of broadcast may be recordable.
- After programming the TV to record digital broadcasting, do not disconnect the power plug before recording starts.
   Also, leaving the power switch "ON" until recording is scheduled to start, may cause the recording to fail.
- Should video or audio recording fail due to malfunction of the TV or poor reception, no compensation shall be paid.
- You can reserve up to a total of 64 programs for recording and viewing.
- If there is a power failure or the power plug is disconnected during programmed recording, recording will stop and will not resume when the power returns or the plug is reconnected.
- Do not disconnect the power plug when the indicator lamp is lit
- Any changes implemented by the broadcasting station may aff ect program scheduling.
- Scheduling of multiple consecutive programs will result in the beginning of each program not being recorded.
- When the "Programme Tracking" for programmed recording is set to "On" and the broadcast time of the scheduled program overlaps with the start time of timer viewing due to delay, extension, or other causes, timer viewing will be cancelled.
- Depending on the situation at the time, not all items can be set or changed. ("X" indicates no setting.)
- Programmed recording cannot take place if the power plug is not connected.
- Disconnecting the power plug during recording may result in failure to save the recorded program.
- Changing the USB 2 Port Setup to Media Player will invalidate all previously made programmed recordings. (see page XX)

## To record DTV programmes (One Touch Recording)

You can easily record the programme currently being viewed.



Press the 
REC button on the remote control.

Recording for the currently viewing programmes will start.

The RED LED will be lit.

Pressing the ● **REC** button once more will display the screen for setting the recording time. Press ◀ or ▶ to select the desired recording time and press **OK**.

## To stop recording

**1** P

Press the (stop) button.

A confirmation window "Do you want to stop Recording" will appear.

2

Press **◄** or **▶** to select **Yes** and press **OK**.

Recording will stop.

## To schedule programmed recording

Programmed recording can be scheduled easily using the Programme Guide or by specifying the date and time.

#### PLEASE NOTE:

When a timed programme is about to start, an information screen will appear off ering the option of watching or cancelling the programme. The menus and other channels will not be available during the timed programme unless the programme timer is cancelled. The programme timer you set is not performed when the TV is turned off with the POWER switch.

It will only be possible to create or edit programme timers for the currently tuned DTV input.

# To schedule programmed recording using the Programme Guide



Press the **GUIDE** button on the remote control (or select **TV Programmes/Guide** menu from the menu system) to display the EPG screen.



Press ▲ ▼ ◀▶ to highlight the programme you want to record.

3

Press **OK**. The **Set Timer** menu will appear.



- Press ▲ or ▼ to highlight Timer Type and press ◀ or ▶ to select Recording.
- Press ▲ or ▼ to highlight **Recording Device** and press ◀ or ▶ to select the connected USB HDD.
- Press ▲ and ▼ to go through the list adding the details of the programme by using the number buttons and ◀ and ▶ to make selections.

#### Programme Tracking:

If information concerning programme delay is sent from the broadcasting station, Programme Tracking will link recording with a delay of up to three hours. Programme Tracking is enabled when **On** is selected. (It does not support advancing of the broadcast time.)

#### Protect:

Select this function when you want to protect a recorded programme. When **On** is selected, the programme will be protected. You can protect and unprotect recorded programmes afterwards.

#### Personal Grouping:

Setting Personal Mode for a programme when it is recorded makes it easier to find later for viewing. Select your preferred **Personal Mode**. If you select **None**, the programme will be recorded to **All** in **Library**.

#### Subtitle:

Select **On** when you want subtitles to be included in the recording.

**NOTE:** To change the set **Start Time** or **End Time**, select **Change Time** and press **OK**. Change the **Start Time** or **End Time** from the displayed **Set Timer** screen.

Press  $\triangle$  or  $\nabla$  to highlight **Set Timer** and press **OK**.

The **ORANGE LED** will be lit.

# To search for and schedule a programme you want to record using Genre Search

- Press the **QUICK** button from the guide screen.
- Press ▲ or ▼ to highlight Genre Colour in the Quick
  Menu and press OK.



- With the focus on a particular genre, press the desired colour key to assign. Four colours will be available to set. Press **BACK** to go back to the quide screen.
- Press the YELLOW button to access the Genre
  Search screen

| Gen | re Search         |                                      | 10:50 Tue, 6 Apr        |
|-----|-------------------|--------------------------------------|-------------------------|
| Ī   | Movies D          |                                      | 0 E x                   |
|     | 34 AB1            | Hard Rain                            | Wed,27 Apr 0:15- 1:45   |
|     | 31 PARIS PREMIERE | Red Corner                           | Wed,27 Apr 22:15- 23:55 |
|     | 11 NT1            | The Lawnmower Man                    | Thu,28 Apr 1:20- 3:00   |
|     | 9 W9              | A Vow to Kill                        | Fri,29 Apr 1:30- 3:00   |
|     | 34 AB1            | Parenthood                           | Sat,30 Apr 0:45- 2:40   |
|     | 11 NT1            | Body and Soul                        | Sat,30 Apr 1:15- 3:00   |
|     | 31 PARIS PREMIERE | The Nun's Story                      | Sat,30 Apr 15:00- 17:30 |
|     | 9 W9              | Red Corner                           | Sat,30 Apr 23:20- 1:15  |
|     | 11 NT1            | The Real Blonde                      | Sun,1 May 0:40- 2:00    |
|     | 31 PARIS PREMIERE | Critters                             | Sun,1 May 0:40- 2:20    |
|     | 11 NT1            | Indiana Jones and the Temple of Doom | Sun,1 May 21:10- 23:20  |
|     | 11 NT1            | The jackal                           | Sun,1 May 23:20- 1:15   |
|     | 34 AB             | Coup De Ville                        | Mon,1 May 1:10- 3:00    |

Press ◀ or ▶ to select the genre. Programmes listed will change for the new genre. Press ▲ or ▼ to select the programme for which you want to schedule recording.

6 Press **OK**. The **Set Timer** menu will appear.



- Press ▲ or ▼ to highlight Timer Type and press ◀ or ► to select Recording.
- Press ▲ or ▼ to highlight **Recording Device** and press ◀ or ▶ to select the connected USB HDD.
- Press ▲ and ▼ to go through the list adding the details of the programme by using the number buttons and ◀ and ▶ to make selections.

Refer to Step 6 (see page 50) "Programme Scheduling using the **Programme Guide**".

Press ▲ or ▼ to highlight **Set Timer** and press **OK**.

The **ORANGE LED** will be lit.

## To programme the timer

- Press MENU / ◀▶/ ▲ / ◀▶ to highlight TV
  Programmed/Programme Timers icons and press
  OK.
- 2 Select the unprogrammed column (blank column) and press **OK**.

The **Set Timer** menu will appear.



- Press ▲ or ▼ to highlight **Timer Type** and press ◀ or ▶ to select **Recording**.
- Press ▲ and ▼ to go through the list adding the details of the programme by using the number buttons and ◀ and ▶ to make selections.

#### Channel:

Select the channel for programmed recording.

#### Date:

Select the date for programmed recording.

#### Start Time:

Select the time to start recording.

#### **End Time:**

Select the time to end recording.

#### Repeat:

Select "Once", "Daily" or Weekly"

| Once   | The selected content is recorded once.  |
|--------|---|
| Daily  | The same time slot on the same channel is recorded every day on and after the selected day.                   |
| Weekly | The same time slot on the same channel on the same day of the week is recorded on and after the selected day. |

## **Recording Device:**

Select the connected USB HDD.

#### Protect:

Select this function when you want to protect a recorded programme. When **On** is selected, the programme will be protected.

You can protect and unprotect recorded programmes afterwards.

#### Personal Grouping:

Select a Personal Mode for the programme to be recorded to make it easier to find later for viewing. Select your preferred Personal Mode. If you select **None**, the programme will be recorded to **All** in **Library**.

#### Subtitle:

Select **On** when you want subtitles to be included in the recording.

Press ▲ or ▼ to highlight Set Timer and press OK.

The ORANGE LED will be lit.

# To schedule a programme using the information screen

Press (j+), the information screen will appear giving details of the channel and programme currently being viewed.



Press ▲ or ▼ to select the **Next** or **Also** and press **OK**.

The **Set Timer** menu will appear.



- Press ▲ or ▼ to highlight **Timer Type** and press ◀ or ▶ to select **Recording**.
- Press ▲ or ▼ to highlight Recording Device and press ◀ or ▶ to select the connected USB HDD.
- Press ▲ and ▼ to go through the list adding the details of the programme by using the number buttons and ◀ and ▶ to make selections.

Refer to Step 6 (see page 50) "Programme Scheduling using the **Programme Guide**".

6 Press ▲ or ▼ to highlight **Set Timer** and press **OK**.

The **ORANGE LED** will be lit.

## To check, edit or delete scheduling information

You can check, edit or delete scheduling information.

Press MENU / ◀▶/ ▲ / ◀▶ to highlight TV
Programmes/Programme Timer icons and press
OK. Programme Timer screen will appear.

### **Recording List:**

- Depending on the transmitter information, the program broadcast time, or other information may not be correctly displayed in the recording list.
- The program does not appear in the recording list immediately at the start of recording, but appears a few minutes after recording starts.
- Up to 500 programs can be displayed in the recording list.
- If the channel settings are changed, the digital channel number, or other information may not appear correctly in the recording list.
- As the displayed program time is calculated from the actual recording information, it may not match the recording time on the USB HDD.

#### To check a schedule

Press ▲ or ▼ on the **Programme Timer** screen to check the schedule.

### To edit a schedule

Press ▲ or ▼ on the **Programme Timer** screen to select the title whose schedule you want to edit and press **OK**.

The **Set Timer** screen will appear. Change the settings as required, following the same procedure as for setting the schedule.

Press ▲ or ▼ to highlight **Set Timer** and press **OK**.

#### To delete a schedule

- Press ▲ or ▼ on the Programme Timer screen to select the title whose schedule you want to delete.
- Press the **RED** button.

Press ◀ or ▶ in the displayed confirmation window to select **Yes** and press **OK**. The selected schedule will be deleted.

**NOTE:** You can also delete a schedule by selecting **Delete Timer** from the **Set Timer** menu for each programming
method

## To view a recorded programme

Display the **Library** screen and select the title of the recorded programme from the list.

Press MENU / ◀▶/ ▲ / ◀▶ to highlight TV
Programmes/Library icons and press OK. Laibrary
screen will appear.

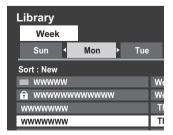


Press ▲ or ▼ to select the title you want to view.

The content of the title selected on the thumbnail screen is played.

To change the order in which the titles are listed, press the **BLUE** button to select **New** or **Old**.

To display the titles by week or by **Personal Mode**, press the **YELLOW** button to select **All**, **Week** or **Personal Grouping**.



Press ◀or ▶ to select a day tab or Personal Mode tab.

**NOTE:** If no titles have been registered to **Personal Mode**, **Personal Grouping** will be greyed out.

Press OK.

Viewing starts.

icon appears next to the title currently being recorded.

When the title currently being recorded is selected and **OK** is pressed, playback will start from the beginning of the programme currently being recorded.

## **Operations during viewing**

The following operations can be performed using the remote control buttons.

To PLAY
To STOP

IMI► To PAUSE/STEP
To start Time Shift
Recording

To SKIP-BACK

Torewind

To FAST FORWARD

To SKIP-FORWARD

## Operations from the Library screen

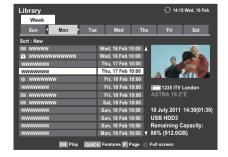
As well as viewing the list of recorded titles on the **Library** screen, you can protect or delete titles and register titles to Personal Mode.

## To display the Library screen

- Press MENU / **I** / **I** / **I** to highlight **TV**Programmed/Programme Timers icons and press

  OK
- Press ▲ or ▼ to select **Library**, and then press **OK**.

  The **Laibrary** screen will appear.



## To protect or unprotect a recorded programme

Protecting a programme prevents it from being accidentally deleted.

Select the title of the programme you want to protect and press the **GREEN** button. a icon appears next to the title and the programme is protected.

If Protect is set to **On** when the programme is recorded, **a** icon appears next to the title of the recorded programme.

When a title with **a** icon is selected and the **GREEN** button is pressed, **a** icon disappears and the programme is unprotected.

## To delete a recorded programme

Press the **RED** button. Check boxes will appear next to the titles.

Press ▲ or ▼ to select the title you want to delete and press OK. A check mark will be inserted in the check box.



To insert a check mark against all the titles, press the **GREEN** button.

To uncheck all the check boxes, press the **BLUE** button.

#### NOTE:

- A check mark will not be inserted against protected titles.
- · Note that once deleted, a title cannot be restored.

Press the **RED** button. Select **Yes** in the confirmation window that will appear and press **OK**.

All the titles with check marks will be deleted.

#### To register a recorded title to Personal Mode

Select the title you want to register to **Personal**Mode.

Press the **QUICK** button to display the **Personal Mode** registration menu.



Press ◀ or ▶ to select the **Personal Mode** to which you want to register the title and press **OK**.

The title will be registered to the selected **Personal Mode**.

You can remove a title from the registered **Personal Mode** by selecting **None**.

## To check the remaining USB HDD capacity

You can check the remaining capacity of the USB HDD using **Remaining Capacity**.



**NOTE:** The remaining time displayed is only a guide; it is not quaranteed.

# Other useful functions (Time Shift Recording)

If you move away from the TV for a while, such as when the phone rings while you are watching TV, you can easily start recording and then catch up with the programme later.

Press the remote control while viewing DTV.

The screen will switch to the Pause image and recording will start automatically.

The recording time is the time set in **One Touch Recording** (see page 49).

Press ► (play).

Catch-up viewing will start from where the programme was paused.

To change the recording time, press ■ (stop) and press REC. The image will switch to the image currently being received and the screen for setting the recording time will appear. Press ◀ or ▶ to select the desired recording time and press OK. Recording will continue during this time.

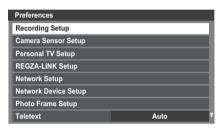
When you select a title currently being recorded from **Library** after the recording time has been changed, playback will start from the beginning.

## **Recording Setup**

You can set your preferences for recording or for scheduling recordina.

## To set the recording time for One Touch Recording

- Press **MENU** /**◀**▶ to highlight **Setup** icon.
- Press ▲ or ▼ to highlight Preferences icon and press
- Press ▲ or ▼ to select **Recording Setup** and press OK.



Press ▲ or ▼ to select One Touch Recording Time and press OK.

| Recording Setup          |                    |  |  |  |  |
|--------------------------|--------------------|--|--|--|--|
| Recording Device         |                    |  |  |  |  |
| One Touch Recording Time | Programme End Time |  |  |  |  |
| Start Padding Time       | None               |  |  |  |  |
| End Padding Time         | None               |  |  |  |  |

Press ◀or ▶ to select the recording time.

You can set the **Programme End Time** in 30-minute increments in the range of 30 minutes to 360 minutes.

# To set the padding time for programmed recording start time and end time.

- Press ▲ or ▼ to select Start Padding Time on the Recording Setup screen.
- Press ◀or ▶ to select a time.

You can select from **None**, 1 minute, 3 minutes, 5 minutes and 10 minutes. Recording will start at the selected number of minutes prior to the recording start time.

- Press ▲ or ▼ to select End Padding Time from the Recording Setup menu.
- Press ◀or ▶ to select a time.

You can select from **None**, 1 minute, 3 minutes, 5 minutes and 10 minutes.

Recording will end at the recording end time plus the selected number of minutes.

## Setting USB HDD Energy-Saving Mode

- Press ▲ or ▼ to select **Recording Devices** from the **Recording Setup** screen and press **OK**.
- Press ▲ or ▼ to select **Device Energy-Saving Mode**.



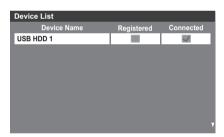
Press ◀ or ▶ to select Normal or Energy Saving.

#### NOTE:

- When set to Energy Saving, it may take a while for the USB HDD to function.
- When set to Energy Saving, depending on the type of USB HDD, the USB HDD indicator lamp may not indicate standby status even when in standby status.

## To change the name of the USB HDD

- Press ▲ or ▼ to select **Recording Devices** from the **Recording Setup** screen and press **OK**.
- Press ▲ or ▼ to select **Device List** and press **OK**. The **Device List** screen will appear.



Press the **GREEN** button.

Edit the desired name by using the software keyboard. (See page 47) The maximum number of characters is 25.

**NOTE:** If multiple USB HDD appear on the **Device List** screen in Step 2, press ▲ or ▼ to select the USB HDD whose name you want to change.

#### To perform a USB HDD operation test

Press the **YELLOW** button on the **Device List** screen.

USB HDD operation test will start. Wait until the test ends.

**NOTE:** The results of the device test are only a guide. The device may not function as shown in the results.

## To register a USB HDD

0

Press **OK** on the **Device List** screen.

Press ◀or ▶ to select **Yes** in the confirmation window that will appear and press **OK**. USB HDD registration will start. Wait until registration ends.

#### NOTE:

- If multiple USB HDD appear on the **Device List** screen, press
   ▲ or ▼ to select the USB HDD you want to register.
- · If a USB HDD is re-registered, it will not be formatted.

#### To format a USB HDD



Press the **BLUE** button on the **Device List** screen

Press ◀or ▶ to select **Yes** in the confirmation window that will appear and press **OK**. Formatting will start. Wait until formatting ends.

#### NOTE:

- If multiple USB HDD appear on the **Device List** screen, press
   ▲ or ▼ to select the USB HDD you want to format.
- When the USB HDD is formatted, all the data stored on the USB HDD will be deleted.

## To disconnect a USB HDD

- Press MENU / ◀▶ to highlight Setup icon.
- Press ▲ or ▼ to highlight Preferences icon and press OK.
- Press ▲ or ▼ to select **Recording Setup** and press OK.
- Press ▲ or ▼ to select Recording Devices and press OK. The Device List screen will appear.

| Device List |            |  |  |  |  |  |
|-------------|------------|--|--|--|--|--|
| Registered  | Connected  |  |  |  |  |  |
|             | ~          |  |  |  |  |  |
|             |            |  |  |  |  |  |
|             |            |  |  |  |  |  |
|             |            |  |  |  |  |  |
|             | Registered |  |  |  |  |  |

Press the **RED** button.

Press ◀or ▶ to select Yes in the confirmation window that will appear and press OK. The Connected check mark will be removed. Disconnect the USB HDD.

**NOTE:** If multiple USB HDD appear on the **Device List** screen, press ▲ or ▼ to select the USB HDD whose name you want to change.

# To confirm/delete Recording Information

If programmed recording is not performed correctly or some other error occurs, you can check the error content using **Recording Information**. Up to 64 **Recording Information** entries will be recorded and when the maximum is exceeded, entries will be deleted starting from the oldest. You can delete **Recording Information** after you have checked it.

- Press QUICK to open the Quick Menu.
- Press ▲ or ▼ to select Recording Information and press OK. The Recording Information screen will appear.



The recorded Recording Information list will appear. icon will appear next to unread Recording Information. When the information is viewed, icon will appear (the icon changes to the Opened icon).

#### To check the content of Recording Information

- Press ▲ or ▼ on the **Recording Information** screen to select the title you want to display.
- Press **OK**. The content of **Recording Information** will appear.



When you have checked the content, press **BACK**. The screen will return to the previous screen.

#### To delete Recording Information

- Press ▲ or ▼ on the **Recording Information** screen to select the **Recording Information** you want to delete.
- Press the **RED** button.

Select **Yes** in the confirmation window that will appear and press **OK**.

The selected Recording Information will be deleted.

## Scheduling priority

If scheduled time slots are next to each other and there is more than one minute between the end time of the first schedule and the start time of the next schedule, programmed recording will be performed correctly.

 When Start Padding Time and End Padding Time are set (see page 55), the start time and end time will be the time plus the additional minutes.

If scheduling times overlap, priority will be given to the programmed recording which starts first. When the programmed recording that started first ends, recording will switch to the next scheduled programme. At this time, depending on how far the scheduling times overlap, the beginning section of the next scheduled programme may not be recorded.

 When End Padding Time is set for the first programmed recording (see page 55), depending on how far the scheduling times overlap, the End Padding Time may be ignored and recording of the next scheduled programme may start. As priority is given to the time set in the Set Timer menu over the Padding Time, recording will automatically be triggered when the next scheduled programme start time is reached during End Padding Time.

# **Camera Sensor Settings**

The Camera Sensor can detect a person's face or movement and identify individuals by their registered faces. The screen mute and the standby mode functions by the face detection and motion detection functions of the Camera Sensor operate, and power consumption is saved as a result.

- In the Preference menu, press ▲ or ▼ to select Camera Sensor Setup and press OK.
- Press ▲ or ▼ to select Camera Sensor and press ◀ or ▶ to select On (to activate the following settings).
- Press ▲ or ▼ to select Camera Sensor Mode and press ◀ or ▶ to select Normal or Energy Saving.
- Press ▲ or ▼ to select Time until Picture Off and press ◀ or ▶ to select 10min, Test (5sec.)...60min. (5min.intervals).

**NOTE:** If the **Camera Sensor Mode** is in **Energy Saving** mode, this feature will be grayed out.

- Press ▲ or ▼ to select **Time until Standby** and press ◀ or ▶ to select **5min....60min**. (5min.intervals).
- Press ▲ or ▼ to select **Test Sensor** and press **OK** to display **Test Sensor** screen.



- Press ◀ or ▶ to highlight Face Detected or Motion
  Detected.
- Press ▲ or ▼ to highlight Gamma Adjustment and press ◀ or ▶ to select the Gamma Adjustment options Auto, 1, 2, 3, or 4 watching the camera image on screen.

## **Device Name Setup**

The TV's DMR device name can be changed. The device name can be confirmed from the DMC

- In the **Network Device Setup** menu, press ▲ or ▼ to select **Device Name Setup** and press **OK**.
- Highlight the **Device Name** field and press **OK**. The Software Keyboard window will appear.
- Input the Device Name by using the Software Keyboard (see page 47). Press the **BLUE** button.

**NOTE:** The Device Name can be up to 127 characters long.

4 Highlight **Done** and press **OK** to save your setting.

## **Using Toshiba Places**

A new cloud based service, where content (movies, photos, etc.) can be viewed and shared across the web through a simple user interface called "Toshiba Places".

#### NOTF:

- You need to configure a home network before using this feature (see page 14).
- If Network Lock is set to On, it will be necessary to enter your four-digit PIN code in order to access network features (see page 76).
- Press ATT to select the desired place and press OK.

#### **Display Example**



NOTE: Some features require an always-on broadband internet connection, firmware update and/or additional bandwidth dedicated to this product. Third party internet services may change or be discontinued or restricted at any time. Toshiba makes no warranties, representations, or assurances about the content, availability or functionality of third-party content or services. Use of third party internet services may require registration by a computer and/or payment of charges and membership. Not all services or content may be available on this product, in your country or with your language. In order to experience the full capabilities of this product, fully compatible devices may be required. For more information, visit

http://www.toshibaplaces.com/about.

# **Using BBC iPlayer**

You can watch and listen to great BBC programmes from the last 7 days on BBC iPlayer.

#### NOTE:

- You need to configure a home network before using this feature (see page 14).
- If Network Lock is set to On, it will be necessary to enter your four-digit PIN code in order to access network features (see page 76).



Press MENU / ◆ ▶ / ▲ ▶ / to highlight Connected TV/BBC iPlayer icons and press OK to open the browser.



| Remote Key  | On Browser    | While Playback      |
|-------------|---------------|---------------------|
| EXIT        | To exit       | To exit             |
| <b>A</b>    | To move up    | -                   |
| ▼           | To move down  | -                   |
| ◀           | To move left  | To move Slider      |
| <b>&gt;</b> | To move right | To move Slider      |
| OK          | To select     | -                   |
| i+          | -             | To display Banner   |
| BACK        | To back       | To back             |
|             | -             | To stop and go back |
| <b>&gt;</b> | _             | If paused, to play  |
| II/II►      | -             | To pause            |

- · This service is not available outside the UK.
- This TV may not be able to operate some functions that can be found on the PC version of BBC iPlayer.
- Depending on network environment and the usage situation, content may be difficult to view.
- To get IPTV services you will need a minimum actual broadband speed of 1Mbps, or 2Mbps for high quality viewing.

## Using YouTube™

YouTube is a video-sharing service managed by YouTube, LLC.

This TV allows you to view YouTube content.

#### NOTE:

- You need to configure a home network before using this feature (see page 14).
- If Network Lock is set to On, it will be necessary to enter your four-digit PIN code in order to access network features (see page 76).



Press MENU / ▲ / ◀ ▶ to highlight Connected TV/YouTube icons and press OK.

The YouTube top page will appear.



Press **A V I** to select the file you want to view, and press **OK**.

#### To close YouTube:



Press **EXIT**.

#### NOTE

- This TV may not be able to perform all of the same operations as a computer.
- Depending on the network environment and use case, you may experience difficulty viewing content.
- Though the same volume value, actual volume might be greatly different depending on contents.
- It may take time for the TV to load and begin playing back content.
- Service content and the look and feel of the interface may be changed at any time without prior notice.

## **Using the Function Menu**

The Function Menu provides easy access to functions that are commonly used.

Press the **BLUE** button while displaying YouTube.
The Function menu window will appear.



Press ◀or ▶ to select the desired icon and press **OK**.

| Item             | Description   |
|------------------|---|
| Back             | Returns to the previous page.   |
| Forward          | Moves to the forward page.  |
| Reload/<br>Abort | Updates the displayed page./ Aborts update ( × is displayed while reading, and 5 is displayed in other case.) |
| Home             | Returns to the top page of YouTube.   |
| Pointer          | Switches the pointer On/Off or drag mode.   |
| Menu             | Switches the frame or sets various settings.  |

## Switching the pointer

The tool that operates the screen can be changed to pointer or drag mode.

- From the Function menu, press ◀ or ▶ to select Pointer, and then press OK.
- If you select  $\[mathbb{N}\]$ , see "To use the Pointer: ON" on this page. If you select  $\[mathbb{N}\]$ , see "To use the Drag Mode" on this page.

## To use the Pointer: ON:

- Press ▲ or ▼ to select **Pointer: ON** and press **OK**.
  - \( \mathbb{N} \) will appear.

**NOTE:** When **Pointer: OFF** is selected and ▲▼◀▶ is pressed, the highlight moves to linked areas.

## To use the Drag Mode:

- Press ▲ or ▼ to select **Pointer: ON** and press **OK**.
- Press the **BLUE** button.
- From the Function menu, press ◀or ▶ to select **Pointer**, and then press **OK**.
- Press ▲ or ▼ to select **Drag Mode** and press **OK**.
  - 🕅 will appear.
- Press **OK**, and then (\*) changes to (\*).
- Press ▲▼◀▶ to move the selected item in the desired place.

## Switching the frame

- From the Function menu, press ◀ or ▶ to select Menu, and then press OK.
- Press ◀ or ▶ to select Page Tasks.
- Highlight Switch Frames and press OK.

## Setting the view feature

- From the Function menu, press ◀or ➤ to select Menu, and then press OK.
- Press ◀ or ▶ to select **View**.
- Press ▲ or ▼ to select the desired item, and press OK.
- Press ▲ or ▼ to select the desired setting, and press OK.

| Item                   | Settings   |
|------------------------|--|
| Display<br>Mode        | Normal: Displays YouTube page with the size as it is.  Just-Fit Rendering: Displays YouTube page at a size that has been adjusted to precisely fit the width of your TV. |
| Text Size              | Changes the font size of the screen. Select from Largest, Large, Medium, Small or Smallest.  NOTE: This font size is effective only for the page.                        |
| Advanced<br>Settings   | See the next column.   |
| Page<br>Information    | Displays the information of the page you are viewing.  |
| Server<br>Certificates | Displays the server certification.   |

## If you select Advanced Settings:

- Press ▲▼◀▶ to select the setting items, and press **OK**. A check will appear in the box. To remove the check, press **OK** again.
- Press ▲▼◀▶ to select OK field, and press **OK**.

| Item             | Description  |
|------------------|--|
| Image            | Sets display/non-display of images.  |
| Table            | Sets effect/non-effect of tables.  |
| CSS              | Sets effect/non-effect of CSS.   |
| Pop-up<br>window | Sets effect/non-effect of pop-up windows.  |
| Animation        | Sets display/non-display of animations.  |
| JavaScript       | Sets effect/non-effect of JavaScript.  |
| Word wrap        | Sets effect/non-effect of Word Wrap. If Word<br>Wrap is enabled, a word not finished at the<br>end of a line is shifted to the next line.  |
| Rapid-<br>Render | Sets effect/non-effect of Rapid-Render. If Rapid-Render is enabled, texts and links are displayed first, and the images and the tables, etc. are displayed afterward. The highlight can be moved with the text and the link displayed. |

## Setting other features

- From the Function menu, press ◀ or ▶ to select Menu, and then press OK.
- Press ◀or ▶ to select **Settings**.
- Press  $\triangle$  or  $\nabla$  to select the desired item, and press **OK**.
- Press ▲ or ▼ to select the desired setting, and press OK.

| ltem                   | Settings   |
|------------------------|--|
| Security               | When jumping from a protected page to an unprotected page, the message is displayed when the check is applied to <b>Notify of secure/non-secure page changes</b> . Apply the check to select SSL version from <b>SSL Version to use (SSL2.0, SSL3.0, TSL1.0)</b> . A content confirmation of the certification and a setting effect/non-effect can be done in <b>Root Certificates</b> and <b>CA Certificates</b> shown below. |
| Cookies                | Accept all: Cookie is received, and it records in this TV.  Reject all: Cookie is not received.  Prompt before accepting: When Cookie is received, a message window will be displayed.   |
| Delete<br>Cookies      | Deletes all recorded Cookies.  |
| Cache                  | Use cache: When the check is applied to this, cache is used.  Delete All Cache Data: Deletes all the cache preserved in the television.  |
| Browser<br>Information | Displays the information on a browser.   |

#### NOTE:

- Cookie is the technical information that a website leaves in this TV so that the website will recognize you when you use it again.
- Cache is a system used to shorten the display time by checking the past data preserved in this television when a page that you viewed before is seen again.

## To confirm Root Certificates or CA Certificates:

- Press ▲ or ▼ to select Security in step3 in Setting other features.
- Press ▲▼◀▶ to select Root Certificates or CA Certificates, and press OK.
- 3 Press ▲ or ▼ to select the desired certificate.
  - When OK is pressed, a detailed information window will appear.
  - When the BLUE button is pressed, Disable or Enable bar will appear. It changes whenever BLUE button is pressed.
- 4 Press BACK.

# **Using the Media Player**

This TV allows you to enjoy movie, music and photo files stored on a USB device connected to the USB port.

Moreover, you can also play photos, movies or music files from your PC by connecting the TV to your home network.

## Terminology:

DMP: DLNA CERTIFIED™ Player

DMS: DLNA CERTIFIED™ Server

DMR: DLNA CERTIFIED™ Renderer

DMC: DLNA CERTIFIED™ Controller

- DMP: The TV can control and play content from a DMS.
  - A DMS is a device that can function as a server for DMP or DMR.
- DMR: The TV can play content from a DMS. Playback is controlled by a DMC.
  - A DMC is a device that can instruct the TV to display content.

#### NOTE:

- · Do not insert/remove USB device while in use.
- · MENU is not available during playback.
- When you want to use your TV as a DMR, set Media Renderer to On (see "Media Renderer" on page 48).

#### Media Player Specifications

Device

**USB** device

Interface version: USB2.0 HS

USB Mass Storage Class devices (MSC)

#### NOTE:

- · Connectivity is not guaranteed for all devices.
- Incorrect behavior may occur with a USB hub connection.

File system: FAT16 and FAT32 Maximum memory size: Unlimited

DLNA CERTIFIED™ Server: Your PC (for example)

You must obtain any required permission from copyright owners to download or use copyrighted content. TOSHIBA cannot and does not grant such permission.

## **Basic operation**

#### **Using Media Player with USB**

When Auto Start is enabled, you will be asked if you want to start the Media Player whenever a USB device is inserted. If Auto Start is disabled (or if you want to connect to a DMS on the network), you must manually start the Media Player from the menu.

## To change the Auto Start setting:

- Press ▲ or ▼ to select USB Auto Start, and then press

  ✓ or ▶ to select On or Off.



#### Auto Start:

- Insert USB device into the USB socket on the left side of the TV. A prompt will appear.
- Press ◀ or ▶ to select Yes, and then press OK.
- Press ▲ or ▼ to select **Photo**, **Movie**, or **Music** and press **OK**.

**NOTE:** If **Auto Start** is set to **Off**, you can start the Media Player manually.

#### Manual Start:

- Insert USB device into the USB socket on the left side of the TV
- Press MENU / ◀▶ to highlight Media Player icon.
- Press ▲ / ◀ ▶ to highlight **Photo**, **Movie** or **Music** icon and press **OK**. The thumbnail will appear.

#### To select a file in the list of contents:

- Press ▲▼ (◀▶) to select a file or folder.
- Press **OK** to move to the next layer, or press **BACK** to return to the previous layer.

## To close the Media Player:

Press EXIT.

## Using the Media Player with a DLNA CERTIFIED™ Server

You need to configure a home network before using this feature (see page 14).

- Press MENU / ◀▶ to highlight Media Player icon.
- Press ▲/◀▶ to highlight **Photo, Movie**, or **Music** icon and press **OK**. The thumbnail (for Photo) or list of files (for Movie and Music) will appear.

**NOTE:** If there is more than one media server on the network, a list of all media servers will be displayed. Highlight the server you want to use, and press **OK**.

Press ▲ or ▼ to select a DMS if the selection window is displayed.

#### To select a file in the list of contents:

- Press ▲ or ▼ to select a file or folder.
- Press **OK** to move to the next layer, or press **BACK** to return to the previous layer.

## To close the Media Player:

Press **EXIT**.

## To display the device information

- Press QUICK to open the Quick Menu in list mode or Multi View mode.
- Press ▲ or ▼ to select **Device Information**.

## Setting DLNA CERTIFIED™ Server waking up:

You only need to complete the Media Server Setup if you wish to use the "Wake-on-LAN" feature.

- Press ▲ or ▼ to select **Media Server Setup** and press **OK**. A list of currently available DMSs will appear.
- Press ▲ or ▼ to select the desired device, and press
  OK. A check will appear in the box. To remove the check, press OK again.
- Press ► to highlight **Done**, and then press **OK** to save.

- · Up to 8 DMSes can be selected.
- Even if the device checked is powered off, it will be displayed but grayed out in the Select Device window.
   When OK is pressed on a highlighted grayed out item, a confirmation of Wake-on-LAN is displayed. The TV tries to wake up the DMS if Yes is pressed. The Server will start if it supports Wake-on-LAN feature.
- When some DMSs are connected, it may take time until the list is displayed. The list may be refreshed by the following operation.
  - The device selection window is closed once and it is displayed again.
  - The **RED** button is pressed.

# Viewing photo files (on a DLNA CERTIFIED™ Server or USB device)

There are three types of viewing modes.

#### Multi View

This view allows you to search for photos in a grid format. The pictures are displayed using thumbnail data in each image file.

#### Photo list example



The initial highlighted position will be on the top left thumbnail in the Multi View.

- Press ▲ ▼ ◆ to move the highlight in one window.

  If all of the photos will not fit in one screen, when pressing ◆ at the top left thumbnail, the screen will move to the previous page. Conversely, when pressing ▶ at the bottom right thumbnail, the screen will move to the next page.
  - P^ P✓ buttons can be used to page up/down the photo list when there are more photos than will fit onto one screen. When the P^ P✓ buttons are pressed, the highlight shall be on the photo at the top left of Previous/Next list.
- When you select a folder, press **OK** to move to the next layer. Press **BACK** to move back to the previous layer.
- Press **OK** to view the selected photo in Single View mode.

**NOTE:** When the TV is used as a DMR, this feature is not available.

#### Single View

In this mode, only files located in the selected directory will be displayed. This view allows you to change the photo content manually. When moving from Multi View to Single View, the currently selected photo will be displayed.

- Press ► to view the next photo. Press ◀ to view the previous photo.
- Press ▲ to rotate the image 90° clockwise. Press ▼ to rotate the image 90° counterclockwise.
- Press (i+) to display file status information (file number, photo title, date and time taken, resolution etc.).

**NOTE:** The information may not be correctly displayed depending on the content, DMC or DMS.

#### Slide Show

This view allows you to watch a slide show of your photos. In this mode, only files located in the selected directory will be played.

- To start slideshow, press **OK** in the Single View mode.
- Press ◀ or ▶ to view the previous/next photo.
- $\blacksquare$  Press  $\blacktriangle$  or  $\blacktriangledown$  to rotate the photo.
- 4 Press (j+) to display file status information.

## To set Interval Time and Repeat settings:

- Press **QUICK** to open the **Quick Menu** while in the Single View mode or Slide Show mode.
- Press ▲ or ▼ to select either Interval Time or Repeat.
- Press ◀ or ▶ to adjust the setting and press **OK**.

#### To set Background Music

- Press **QUICK** to open the **Quick Menu** while in the Slide Show mode.
- Press ▲ or ▼ to select Background Music and press
  OK.
- Press ▲ or ▼ to select **Background Music** and press ◀ or ▶ to select **On**.
- Press ▼ to select Select Music and press OK.
- 5 Select a music.

- The music must be selected from the same media (USB) device or DMS from which the picture files will be played.
- This feature is not available when there is no music that can be selected.

## To zoom in/out photos

During the Single View mode or Slide Show mode, the zoom function can be used.

**RED button:**  $x1 \rightarrow x2 \rightarrow x4 \rightarrow x8 \rightarrow x16$  zoom

**GREEN button:**  $x16 \rightarrow x8 \rightarrow x4 \rightarrow x2 \rightarrow x1$  zoom

**BACK button:** Normal playback

▲ ▼ ◀ ▶ buttons: Vertical or Horizontal scrolling

### To sort the folders and files

Press QUICK to open the Quick Menu from Multi View mode.

Press ▲ or ▼ to select **Sort**.

Press ◀or ▶ to select Title/File Name, New or Old to set the sorting rule.

| Item               | Description   |
|--------------------|---|
| Title (DMS)        | File sorting rules: 1. Unicode priority 2. (0, 1,, 9), capital alphabet (A, B,, Z), small alphabet (a, b,, z) 3. Increasing order |
| File Name<br>(USB) | File sorting rules: 1. Unicode priority 2. (0, 1,, 9), capital alphabet (A, B,, Z), small alphabet (a, b,, z) 3. Increasing order |
| New                | From new to old according to the date and time when the picture was taken.  |
| Old                | From old to new according to the date and time when the picture was taken.  |

NOTE: Sorting may not be supported by some DMSs.

#### To display the device information

Press **QUICK** to open the **Quick Menu** from Multi View mode.

Press ▲ or ▼ to select **Device Information** and press **OK**.

**NOTE:** When the photos on the USB device are used, or the TV is used as a DMR, this feature is not available.

#### To close the Photo Viewer

Press EXIT. The television will return to the last viewed channel or external input.

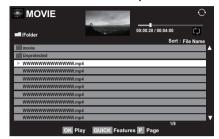
#### **File Compatibility**

See page 98.

# Viewing movie files (on a DLNA CERTIFIED™ Server or USB device)

You can select movies from a list of available files.

#### Movie list example



- Press ▲ ▼ to select a file or folder. P^ P buttons can be used to page up/down the movie list when there are more files than will fit onto one screen.
- When you select a folder, press **OK** to move to the next layer. Press **BACK** to move back to the previous layer.
- With the desired file selected, press OK or ► (play) to start playback.

#### NOTE:

- On preview screen, if you highlight the file without pressing OK, the content is played on a preview screen. When OK is pressed, it is played in full screen mode.
- Depending on the file size, it may take some time to start playback.
- 4 Press to stop playback.

- If playback finishes before 

   is pressed, the screen will return to the list.
- Depending on the file size, it may take some time for playback to begin.

## **During playback:**

Press II/II 

 to pause.

You can move to the desired replay position by pressing ◀ or ▶ during PAUSE.

PAUSE or operations during PAUSE may not be available depending on the contents, DMC or DMS.

- To resume normal playback, press ➤ (play).
- To play in fast reverse or fast forward directions, press ◀◀ or ▶▶ during playback. Each time you press the ◀◀ or ▶▶, the playback speed will change.
- To locate a specific file, press or repeatedly.
- Press (i+) to display the file status information (content number, movie title, progress time etc.).

#### NOTE:

- The information may not be correctly displayed depending on the contents, DMC or DMS.
- During playback, you can adjust the Picture, Picture Size and Sound menu functions from the Quick Menu.

#### To select subtitle and audio languages

- Press SUBTITLE repeatedly to select your preferred subtitle language.
- Press \(\infty\) [/ repeatedly to select your preferred audio language.

**NOTE:** This feture is not available depending on the contents.

#### To set the repeat mode

Press QUICK to open the Quick Menu.

Press ◀or ▶ to select Off, All or 1.

| Mode | Description  |
|------|--|
| Off  | The file is played back only once.                   |
| All  | Files in the same folder are repeatedly played back. |
| 1    | The same file is repeatedly played back.             |

Press BACK.

**NOTE:** When the TV is used as a DMR, this feature is not available.

#### To sort the folders and files

- Press QUICK to open the Quick Menu in list mode.
- Press ▲ or ▼ to select **Sort**.
- Press ◀or ▶ to select Title/File Name, New or Old to set the sorting rule.

| Item               | Description   |
|--------------------|---|
| Title (DMS)        | File sorting rules:  1. Unicode priority  2. (0, 1,, 9), capital alphabet (A, B,,Z), small alphabet (a, b,, z)  3. Increasing order |
| File Name<br>(USB) | File sorting rules: 1. Unicode priority 2. (0, 1,, 9), alphabet (A, B,,Z) 3. Increasing order                                       |
| New                | From new to old according to the date and time when the contents were updated.  |
| Old                | From old to new according to the date and time when the contents were updated.  |

**NOTE:** Sorting may not be supported by some DMSs.

## To display the device information

- Press QUICK to open the Quick Menu in list mode.
- Press ▲ or ▼ to select **Device Information** and press

**NOTE:** When the movies on the USB device are used, or the TV is used as a DMR, this feature is not available.

## To close the Movie Viewer

Press **EXIT**.

## **File Compatibility**

See page 98.

## To register your TV to a DivX® account

This TV allows you to play back files purchased or rented from DivX<sup>\*</sup> Video-On Demand (VOD) services. When you purchase or rent DivX<sup>\*</sup> VOD files on the internet, you will be asked to enter a registration code.

- In the Media Player Setup menu, press ▲ or ▼ to select DivX° VOD and press OK.
- Press ▲ or ▼ to highlight DivX° VOD Registration, and then press OK.



The **DivX**\* **VOD** window will appear and you will see the registration code. For details on registration, please visit the DivX\* website at

#### http://vod.divx.com

Copy the activation file to a memory device and play it on the TV.

## To deactivate your device

- In step 3 above, highlight **DivX**° **VOD Deactivation**, and then press **OK**.
- A confirmation message will appear. Select **Yes**, and then press **OK**.
- The **DivX**\* **VOD** window will appear and you will see the deactivation code. For details on registration, please visit the DivX\* website at

### http://vod.divx.com

ABOUT DIVX VIDEO: DivX® is a digital video format created by DivX, Inc. This is an official DivX Certified® device that plays DivX video. Visit divx.com for more information and software tools to convert your files into DivX video.

ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in your device setup menu. Go to vod.divx.com for more information on how to complete your registration.

DivX Certified® to play DivX® and DivX Plus™ HD (H.264/MKV) video up to 1080p HD including premium content.

# Playing music files (on a DLNA CERTIFIED™ Server or USB device)

You can listen to music from a list of available files.

### Music list example



- Press ▲ ▼ to select a file or folder. P^ buttons can be used to page up/down the music list when there are more files than will fit onto one screen.
- When you select a folder, press **OK** to move to the next layer. Press **BACK** to move back to the previous layer.
- With the desired file selected, press **OK** or ► (play) to start playback.

**NOTE:** If you highlight the file without pressing **OK**, the content is played on a music list. When **OK** is pressed, it is played in full screen mode.

4 Press ■ to stop playback.

## NOTE:

- Depending on the file size, it may take some time for playback to begin.
- During playback, you can adjust the **Sound** menu functions from the **QUICK Menu**.

## **During playback:**

- To resume normal playback, press ➤ (play).
- You can move to the desired replay position by pressing 

  or 

  during PAUSE.
- PAUSE or operations during PAUSE may not be available depending on the content, DMC or DMS.
- To play in fast reverse or fast forward directions, press ◀
   or ▶▶. Each time you press ◀◀ or ▶▶, the playback speed will change.

## To set the repeat mode:

- Press QUICK to open the Quick Menu in list mode.
- Press ▲ or ▼ to select Repeat.
- Press ◀or ▶ to select Off, All or 1.

| Mode | Description  |
|------|--|
| Off  | Files in the same folder are played back once.       |
| All  | Files in the same folder are repeatedly played back. |
| 1    | The same file is repeatedly played back.             |

4 Press BACK

**NOTE:** When the TV is used as a DMR, this feature is not available.

## To set the shuffle mode:

- Press QUICK to open the Quick Menu in list mode.
- Press ▲ or ▼ to select Shuffle.
- Press ◀or ▶ to select **On** or **Off**.

#### To sort the folders and files

- Press QUICK to open the Quick Menu in list mode.
- Press ▲ or ▼ to select **Sort**.
- Press ◀ or ▶ to select **Title/File Name**, **New** or **Old** to set the sorting rule.

| Item               | Description   |
|--------------------|---|
| Title (DMS)        | File sorting rules: 1. Unicode priority 2. (0, 1,, 9), alphabet (A, B,,Z) 3. Increasing order |
| File Name<br>(USB) | File sorting rules: 1. Unicode priority 2. (0, 1,, 9), alphabet (A, B,,Z) 3. Increasing order |
| New                | From new to old according to the date and time when the contents were updated.                |
| Old                | From old to new according to the date and time when the contents were updated.                |

NOTE: Sorting may not be supported by some DMSs.

## To display the device information

- Press **QUICK** to open the **Quick Menu** in list mode.
- Press ▲ or ▼ to select **Device Information** and press

**NOTE:** When the music files on the USB device are used, or the TV is used as a DMR, this feature is not available.

## To display the file status information

- Press (i+) during playback. The information will be displayed on the bottom of the screen.
- 2 Press (i+) again to remove the information.

**NOTE:** The information may not be correctly displayed depending on the content, DMC or DMS.

### To close the Music Player:

1 Press EXIT.

## File Compatibility

See page 98.

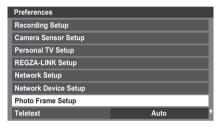
# Using the Photo Frame feature

You can use the TV screen as a digital photo frame. One image (pre-installed or user-installed) can be displayed. Date info can also be superimposed. If desired.

You can overwrite the photo file with a file from a USB storage device or DLNA CERTIFIED™ Server.

## To open Photo Frame

- Press ▲ or ▼ to select Photo Frame Setup and press OK.



The preview screen will appear.



Press ► to select **Start** and press **OK** to open **Photo**Frame.



## To open from the Quick Menu

- Press QUICK to open the Quick Menu.
- Press ▲ or ▼ to select **Photo Frame** and press **OK** to open **Photo Frame**.

#### To close Photo Frame:

Press **EXIT**.

## Setting the features

In the preview screen, you can set various settings for Photo Frame.

### **Photo Select**

In the **Photo Frame Setup** menu, press ▲ or ▼ to select **Photo Select** and press **OK**.



If the device selection screen appears, press ▲ or ▼ to select the appropriate device and press OK.



Press ▲ ▼ ◀ ► to select the photo you want to copy from the USB storage device or DLNA CERTIFIED™ server to the TV's flash memory, and then press **OK**.



## **Photo Edit**

- Press ▲ or ▼ to select **Photo Edit** and press **OK**.
- Press ▲ or ▼ to select Rotate or Delete.



- Set the following items as required.
  - **Rotate** Press **OK** to rotate the image 90°clockwise.
  - Delete Press OK. A confirmation window will appear. Press ◀ or ► to select YES, and then press OK.
- 4 Press BACK.

#### Settings

- 1 Press  $\triangle$  or  $\nabla$  to select **Settings**, and then press **OK**.
- Press ▲ or ▼ to select Clock, Position or Auto Power Off.



- Set the following items as required.
  - Clock Press ◀ or ▶ to select Off, Digital Clock, Analogue Clock or Analogue + Digital.
  - Position Press ◀ or ▶ to select Left or Right.
  - Auto Power Off Press ◀ or ▶ to select Off, 00:30, 01:00, 02:00, 04:00, 06:00 or 12:00.
     If the Photo Frame window is left open, the TV will automatically turn off after the set length of time (maximum 12 hours).
- 4 Press BACK
- 5 Select **Start** and press **OK**.



- The clock display will only appear when time from a digital broadcast is available.
- The photo and clock displays are moved by 4 dots every 5 minutes to minimize the risk of screen burn-in.
- The pre-installed photo file is stored in the TV's flash memory before shipment.
- Picture Size selection (Normal/ Dot by Dot) is available by pressing the QUICK button. However when the resolution is 1920 x 1080 or above, the Picture Size selection menu will be grayed out.

## Other features

## **Panel Lock**

**Panel Lock** disables the buttons on the television. All buttons on the remote control can still be used.



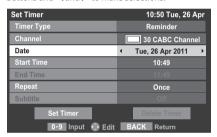
When Panel Lock is On, a reminder will appear when the buttons on the television are pressed. If the standby button is pressed, the television will switch off and can only be brought out of standby by using the remote control.

## The timers

## Programme Timers - digital only

This feature will set the television to go to a specific channel at a certain time. It can be used to view a particular programme, or by setting the mode to daily or weekly, can be used to view a series of programmes.

- Press MENU / ◀► / ▲ / ◀► to highlight TV
  Programmes/Programme Timers icons and press
  OK.
- Press ▼ to select **Programme Timers**, and then press **OK**.
- Press ▼ if necessary to select an open timer position, then press **OK**. The **Set Timer** menu will now appear on screen.
- Press ▲ and ▼ to go through the list adding the details of the programme by using the number buttons and ◀ and ▶ to make selections.



When all of the details have been entered, highlight **Set Timer** and press **OK** to save the timer.

The ORANGE/RED programme timer indicator on the front of the television will be lit (see page 93 for details).

PLEASE NOTE: When a timed programme is about to start, an information screen will appear offering the option of watching or cancelling the programme. The menus and other channels will not be available during the timed programme unless the programme timer is cancelled. The programme timer you set is not performed when the TV is turned off with the (b/| POWER switch.

It will only be possible to create or edit programme timers for the currently tuned DTV input.

## On Timer

The feature allows you to set the television to turn on automatically to a preset channel at a certain time of day or after a certain length of time.

- Press MENU / ◀▶ / ▲ / ◀▶ to highlight Function/ On Timer icons and press OK.
- Press ▲ or ▼ to select **Enable On Timer** and press ◀ or ▶ to select **On**.

| On Timer            |        |
|---------------------|--------|
| Enable On Timer     | ∢ On → |
| Enable DTV Clock    | On     |
| Power On Time       | 00:00  |
| Repeat              | Once   |
| Input               | DTV    |
| Channel             | 12 ABC |
| Volume 20           |        |
| Time Until Power On | 00:00  |
| Done                |        |

- Press ▼ to select Enable DTV Clock, and then press ◀ or ▶ to select On or Off.
- Press ▲ or ▼ to go through the list adding the details of the On Timer by using the number buttons and ◀ and ▶ to make selections.

Power On Time (only for DTV Clock On mode): Set the time you prefer with the number buttons. Repeat (only for DTV Clock On mode): Select the desired On Timer operation (Once, Every Day, Mon-Fri, Mon-Sat, Sat-Sun).

**Input:** Select a video input source (ATV, DTV, EXT 1, EXT 2, EXT 3, HDMI 1, HDMI 2, HDMI 3, HDMI 4 or PC). **Channel:** Set the channel that will be tuned when the television turns on.

**NOTE:** When an external input is selected in the **Input** field, a channel cannot be selected.

**Volume:** Set the volume that will be applied when the television turns on.

**Time until Power On** (only for DTV Clock Off mode): Set the amount of time from now until the TV turns on using the number buttons (maximum of 12 hours).

Press ▲ or ▼ to highlight **Done** and press **OK**.

#### To cancel the On Timer

- In the On Timer menu, select Enable On Timer
- Press ◀or ▶ to select Off.

## Sleep Timer

The television can be set to turn itself **Off** after a certain length of

- Use the number buttons to set the desired time. For example, to switch the television off in one and a half hours enter 01:30, or press ►/ ◀ to increase/decrease in steps of 10 minutes. (Maximum time setting is 12 hours)
- Press **EXIT** to finish.
- To cancel the **Sleep Timer**, enter all zeros for the above setting.

# **Energy Saving Settings**

# **Automatic Power Down**

The TV will automatically turn itself off (standby) after 4 hours, if you do not operate the TV either from the remote control or the TV control panel.

- Press MENU / **\** / **\** / **\** to highlight **Setup**/ **Preferences** icons and press **OK**.
- Press ▲ or ▼ to select Energy Saving Settings and press OK.
- Press ▲ or ▼ to select Automatic Power Down.
- Press ◀or ▶ to select On or Off, and press OK.

#### NOTE:

- This feature is set to On when Location is set to Home.
- 1 minute before switching to standby, a Warning message will appear.
- When the following features are set, the feature that is set for the nearest time will function.
  - Automatic Power Down
  - Sleep Timer
  - Photo Frame/Auto Power Off
  - Auto shutdown after 1 hour of inactivity (after power on by On Timer)
  - No signal auto power off (after 15 minute of no signal)

# **No Signal Power Down**

The TV will automatically turn itself off after 15 minutes when no signal is detected. You can change the setting to Off for the following purposes:

- Low signal strength of analog channel (no signal detection)
- Only Audio L/R is connected to external input to listen to music through the TV speakers.
- In the Energy Saving Settings menu, highlight No Signal Power Down, and press OK.
- Press ▲ or ▼ to highlight the item you want to change, and press ◀ or ▶ to select **On** or **Off**.

#### NOTE:

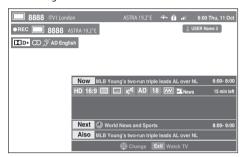
- · Default setting is all On.
- · A warning message will appear 1 minute before turning off.

# Digital on-screen information and Programme Guide

When viewing in **digital** mode, the on-screen information and programme guide provide access to programme details for all available channels.

#### Information

Press (+), the information screen will appear giving details of the channel and programme currently being viewed.



- Press ▲ or ▼ to select the "Now", "Next" or "Also" information guide.
- To record the next scheduled programme, select "Next" and press OK. The Set Timer screen will appear.



The details of the programme will already have been added to the timer. Highlight **Set Timer** and press **OK** to save.

To indicate that a Recording Timer has been set, a clock icon will be displayed in the **Next** and **Also** fields of the information screen. A check mark will appear if the timer is a Reminder Timer.

Press ▼ to select **Also**. Details of programmes that have started on other channels will be provided. Use ◀ or ▶ to change the display contents.

## To display More Information

- Press QUICK to open the Quick Menu.
- Press ▼ to highlight **More Information** and press **OK**.

#### **On-screen Information icons**

|                        | lcon       | Description                       |
|------------------------|------------|-----------------------------------|
| Service info           |            | Service type<br>(TV, Radio, Text) |
|                        | <b>→</b>   | Skip                              |
| Audio info             | 0          | Mono                              |
|                        | 8          | Stereo                            |
|                        | •0         | Dual mono                         |
|                        | 8:         | Multichannel                      |
|                        | ΙΙD        | Dolby Digital                     |
|                        | <b></b> D+ | Dolby Digital+                    |
|                        | HE-AAC     | Audio Coding                      |
|                        | AD         | Audio Description                 |
| Audio/Subtitle<br>info | Í          | For Hard of Hearing               |
| Recording info         | REC        | Recording + Service info          |
| Personal Mode info     | 8          | Personal Mode<br>(Personal Name)  |
| Event info             | HD, SD     | Video format (HD, SD)             |
|                        | 16:9, 4:3  | Video Aspect                      |
|                        |            | Teletext                          |
|                        | 🖆          | Subtitle (Single, Multi)          |
|                        | 日日日        | Multi-audio track                 |
|                        | 0, 4 – 18  | Parental rating                   |
|                        | W          | Encrypted                         |
| Timer info             | 4          | Recording                         |
|                        | >          | Reminder                          |

#### Guide

Select the on-screen guide by pressing GUIDE, and the guide screen will appear highlighting details of the channel and programme currently being viewed. This may take a few moments to appear.

| Thu6              |                 |               |                 | 10:          | 50 Tue, 6 Ap     | r |
|-------------------|-----------------|---------------|-----------------|--------------|------------------|---|
| TV                | <b>44</b> 18:00 | 18:30         | 19:00           | 19:30        | 20:00 ₩          | П |
| 6 M6              | O9 LES SIM      | ES SIM.       | 06 ТОР          | MODEL        |                  | I |
| 9 W9              | IMI SOWW        | ERLAND 3      | SUMMERLANI      | ) [4]        | .ES SIM          | I |
| 11 NT1            | 08 Nicky La     | a 🖾 Street fi | ght 🗐 Drago     | n B 24 Drago | on B 🛂 K 2000    |   |
| 31 PARIS PREMIERE | 05 MA SOR       | CIE 39 HAI    | PPY DAYS 🔞      | HAPPY DAYS   |                  | I |
| 34 AB1            | 00 Evamag 27    | 21 jump stree | t 111 Jerry Spi | inger Show E | City guys 177 L. |   |
| 800 FlowerGd 6Mbs |                 |               |                 |              |                  | I |
| 801 FlowerGd 4Mbs |                 |               |                 |              |                  | I |
| 802 FlowerGd 2Mbs |                 |               |                 |              |                  | I |
| 804 Codec 4:3     |                 |               |                 |              |                  | I |
| 806 ITV1          |                 |               |                 |              |                  | I |
| 807 ITV3          |                 |               |                 |              |                  | I |
| 808 ITV2          |                 |               |                 |              |                  |   |
| 809 ITV4          |                 |               |                 |              |                  | I |

You can switch the time scale to 1.25 or 2.5 hours by pressing the **GREEN** button.

**NOTE:** Channels are displayed in groups by service type (TV, Radio, Text). Pressing the **TV** button will switch the service type.

- Press ◀ or ▶ for information on other programmes scheduled for the channel selected. To highlight the first programme in the genre grid, press the **RED** button.
- For details of other programmes currently available, press ▲ and ▼ to scroll up and down the channel list. As channels are selected, details of the programme currently being broadcast will appear. Press ◀ or ▶ to view information for future programmes.
- For information on a highlighted programme, press (i+).
- To set the timer for that programme, press the **BLUE** button to bring up the **Programme Timers** menu.

**NOTE:** In order for the recording operation to work properly, the media recorder must be set to the same time as the TV. Regarding the process for recording, please refer to the owner's manual of the recording equipment.

Press P 

to advance to the next page, or press P 

to go back to the previous page.

# Genre selection/searching

From the guide screen, you can use the genre selection and search features

- Press the **QUICK** button from the guide screen.
- Press ▲ or ▼ to highlight Genre Colour in the Quick
  Menu and press OK.



- With the focus on a particular genre, press the desired colour key to assign. Four colours will be available to set. Press BACK to go back to the guide screen.
- Press the YELLOW button to access the Genre Search screen.

| Gen | re Search         |                                      | 10:50 Tue, 6 Apr        |
|-----|-------------------|--------------------------------------|-------------------------|
|     | Movies D          |                                      | <b>€ ∠</b> ★            |
|     | 34 AB1            | Hard Rain                            | Wed,27 Apr 0:15-1:45    |
|     | 31 PARIS PREMIERE | Red Corner                           | Wed,27 Apr 22:15- 23:55 |
|     | 11 NT1            | The Lawnmower Man                    | Thu,28 Apr 1:20- 3:00   |
|     | 9 W9              | A Vow to Kill                        | Fri,29 Apr 1:30-3:00    |
|     | 34 AB1            | Parenthood                           | Sat,30 Apr 0:45- 2:40   |
|     | 11 NT1            | Body and Soul                        | Sat,30 Apr 1:15-3:00    |
|     | 31 PARIS PREMIERE | The Nun's Story                      | Sat,30 Apr 15:00- 17:30 |
|     | 9 W9              | Red Corner                           | Sat,30 Apr 23:20- 1:15  |
|     | 11 NT1            | The Real Blonde                      | Sun,1 May 0:40- 2:00    |
|     | 31 PARIS PREMIERE | Critters                             | Sun,1 May 0:40- 2:20    |
|     | 11 NT1            | Indiana Jones and the Temple of Doom | Sun,1 May 21:10- 23:20  |
|     | 11 NT1            | The jackal                           | Sun,1 May 23:20- 1:15   |
|     | 34 AB             | Coup De Ville                        | Mon,1 May 1:10- 3:00    |

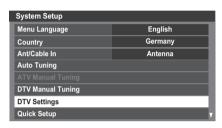
- Press ◀or ▶ to select the genre. Programmes listed will change for the new genre. Press ▲ or ▼ to highlight a particular programme.
- When a current programme is selected, pressing OK will tune to that programme. When a future programme is selected, pressing OK will open the Edit Timer menu.
- For information on a highlighted programme, press [i+].
- To exit the **Genre Search** and go back to the guide screen, press the **YELLOW** button.

# Digital settings – parental control

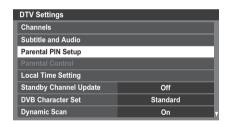
In order to prevent viewing of unsuitable films and programmes, channels and menus can be locked in digital mode. These can then only be accessed with a security code PIN.

# Parental PIN Setup

- Press MENU / ◀▶ / ▲ / ◀▶ to highlight Setup/
  System Setup icons and press OK.
- Press ▲ or ▼ to select **DTV Settings** and press **OK**.



Press ▲ or ▼ to highlight Parental PIN Setup and press OK.



4 Using the number buttons enter a four digit number. Once entered you will be prompted to confirm by entering again.



The PIN number is now set.

If the PIN code has been set, when **Auto Tuning** and **Reset TV** are executed, entering the PIN will be necessary.

# **Parental Setup**

The Parental Control feature allows you to block programmes according to their rating levels. If a PIN has been set, you will need to enter it before adjusting the level.

- In the **DTV Settings** menu, press ▲ or ▼ to select **Parental Control** and press **OK**.
- Use ◀or ▶ to choose an option (None or an age setting (4-17 or 4-18 depending on the Country setting)).



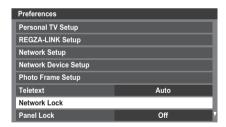
To view blocked programmes, enter the PIN. To reactivate the Parental Control, turn the TV off and then on again.

## **Network Lock**

You can **use** the Network Lock feature to prevent the Web browser from launching. When this feature is set to **On**, PIN input will be necessary to use YouTube.

This feature will be grayed out until a PIN is set.

- Press MENU / \ \ / \ \ / \ to highlight Setup/
  Preferences icons and press OK.
- Press ▲ or ▼to select **Network Lock** and press **OK**.



- Enter your four-digit PIN code.
- Press ◀or ▶ to select On, and then press OK.

#### To unlock the Network:

Select **Off** in step 4 above.

# Digital settings – Channel Options

# Selecting favorite channels

**Favorite Channels** creates a list of the **digital** channels that are watched most. Four lists can be created, they can be a mixture of television. radio and text channels.

- Select a channel you want to add to your favorite list.
- Press QUICK to open the Quick Menu.
- Press ▼ to select Channel Options and press OK.
- Press ▶ repeatedly to select the favorite list (Fav.1-4)



- Press **OK** to select the ones required. A tick will appear in the box as they are selected.
- 6 Repeat steps 1 through 5 for other channels.
- When all favorites have been selected, press **EXIT**.

## **Favorite Channel Lists**

- Press LIST to display Channel List.
- Press ◀ or ▶ to select Favourites 1-4. The number of favourites available depends on how many lists have been created.



Press ▲ or ▼ to highlight a channel and press **OK** to watch

# Skip channels

This feature allows you to set channels that will be skipped when  $P \checkmark$  or  $P \land$  are used to tune.

- Select the channel you want to skip in your channel list.
- From the Quick Menu, press ▼ to select Channel Options and press OK.
- Press ▶ repeatedly to highlight the skip (♠) box.
- Press **OK** to select. A tick will appear in the box.
- Repeat steps 1 through 4 for other channels.
- 6 Press EXIT

**NOTE:** Skipped channels cannot be selected by **P** or **P** out still be accessed by direct number entry (when tuned a → icon will be displayed in the banner to indicate as a skipped channel).

# Locking channels

**Locking Channels** stops the viewing of **digital** channels, and they can only be accessed by entering the PIN.

- Select the channel you want to lock in your channel list
- From the Quick Menu, press ▼ to select Channel Options and press OK.
- Press ▶ repeatedly to highlight the lock (♠) box.
- Press **OK** to select. A tick will appear in the box.

  If a PIN has already been set, PIN entry will be required to set the locked channels.
- Repeat steps 1 through 4 for other channels.
- 6 Press EXIT.
- From this point on, when any of the channels in the Locked Channel list are selected, the PIN must be entered before they can be accessed.

# Digital settings - other settings

#### Subtitles

In digital mode, this feature will show subtitles on the screen in the selected language provided they are being broadcast.

- In the DTV Settings menu, press ▲ or ▼ to select Subtitle and Audio and press OK.
- Press ▼ to select **Subtitle Display** and use ◀ or ▶ to select **On** or **Off**.

| Subtitle and Audio          |   |         |             |
|-----------------------------|---|---------|-------------|
| Subtitle Display            | 4 | Off     | <b>&gt;</b> |
| Subtitle Type               |   | Normal  |             |
| Primary Subtitle Language   |   | English |             |
| Secondary Subtitle Language |   | English |             |
| Audio Type                  |   | Normal  |             |
| Primary Audio Language      |   | English |             |
| Secondary Audio Language    |   | English |             |

Press ▲ or ▼ to select Primary Subtitle Language or Secondary Subtitle Language and press ◀ or ▶ to select an option.

The **SUBTITLE** button can be used to select subtitle on or off for the current channel only and to select the subtitle language if more than one subtitle is available.

# **Audio languages**

This feature allows a programme or film to be viewed with a choice of soundtrack language, provided multiple language tracks are being broadcast.

- In the **Subtitle and Audio** menu, press ▲ or ▼ to select **Audio Type** and press ◀ or ▶ to select **Normal** or **For Hard of Hearing**.
- Press ▲ or ▼ to select Primary Audio Language or Secondary Audio Language and press ◀ or ▶ to select an option.

If more than one soundtrack is available, use the  $\bigcirc I/I$  button to select between them.

## **Common Interface**

The Common Interface Slot, situated on the side of the television, enables the insertion of a CAM (Conditional Access Module) and card. These are purchased from a service provider and allow additional subscription broadcasts to be viewed. For information, see a service provider.

- Insert the CAM and card into the Common Interface Slot, following the instructions provided with the CAM. A box will appear on screen to confirm that the CAM has been inserted.
- Press MENU / ◀▶ / ▲ / ◀▶ to highlight Setup/
  System Setup icons and press OK.
- Press ▲ or ▼ to select DTV Settings and press OK.
- Press ▲ or ▼ to select Common Interface and press OK.
- Details of the CAM should now be available.

#### NOTE:

- Software update of a CI Plus CAM may occur automatically if instigated by the broadcaster. This could cause the cancellation of any Reminders/Recordings during this process.
- Some CI or CI+ CAM may not be supported.
- CI+ operation is not guaranteed except for Canal Ready DTT services on suffix FC models.

# **Software Upgrade and Licences**

# **Auto Upgrade**

When **Auto Upgrade** is set to **On**, the television will automatically upgrade while in standby if new software is available.

- In the System Setup menu, press ▲ or ▼ to select Software Upgrade and press OK.
- Press ▲ or ▼ to select **Over-the-air Upgrade** and press **OK**.
- Press ▲ or ▼ to select Auto Upgrade.
- 4 Use ◀ or ▶ to select **On** or **Off**.

# Searching for New Software

If preferred, software upgrades can be searched for manually using Search for New Software.

- In the **System Setup** menu, press ▲ or ▼ to select **Software Upgrade** and press **OK**.
- Press ▲ or ▼ to select **Over-the-air Upgrade** and press **OK**.
- Press ▲ or ▼ to select Search for New Software.
- Press OK. The television will automatically start searching for a software upgrade, the progress bar will move along the line.

SEARCHING FOR NEW SOFTWARE
Searching for a new software upgrade for this TV.
Searching

If an upgrade is found, the television will automatically start downloading. If not, a screen will appear stating that an upgrade is unavailable.

# **Network Upgrade**

TOSHIBA may offer upgrades for the TV's software in the future. The TV's software is upgraded via the Network.

#### Before downloading software;

Configure your TV to connect to the Internet.

**NOTE:** While the upgrade is being performed, you will not be able to watch the TV.

- In the System Setup menu, press ▲ or ▼ to select Software Upgrade and press OK.
- Press ▲ or ▼ to select **Network Upgrade** and press

**NOTE:** If the network is not available, a warning message will appear.

The TV software upgrade will start when download succeeds.

# **Software Licences**

The licences for the software used in this television are available for viewing.

In the **System Setup** menu, press ▲ or ▼ to select **Software Licences** and press **OK**.

A screen will appear displaying all the licensing information required for the televisions software.

# **System Information and Reset TV**

# **System Information**

This feature can be used to check the version of software currently installed. When in DTV mode, it includes additional diagnostic information such as signal strength, signal quality, centre frequency, modulation, etc.

- In the **System Setup** menu, press ▲ or ▼ to select **System Information**.
- Press **OK** to display the **System Information**.



- For information about the signal quality of a particular multiplex, press ▲ or ▼ to select that multiplex.
- Press **OK** for a screen showing detailed technical information about the selected multiplex.

## **Reset TV**

Selecting **Reset TV** will reset all TV settings, including saved channels, to their original factory values.

- In the **System Setup** menu, press ▲ or ▼ to select **Reset TV**.
- Press **OK** to select. A screen will appear warning that all settings will be lost. Press **OK** to continue.

When the set powers back on, the **Quick Setup** screen will appear. Press **OK** to advance the setup and perform an auto tune. (See "Quick Setup" section on page 18.)

# **PC Settings**

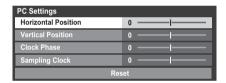
# **Horizontal and Vertical Position**

Connect the PC (as shown in the 'Connecting a computer' section) and ensure that a picture is showing on the television screen. The picture position may now be adjusted to suit personal preference.

- Press ▲ or ▼ to select **Display Settings** and press **OK**.
- Press ▲ or ▼ to select PC Settings.



Press **OK**. Press ▲ and ▼ to select an option, then ◀ or ▶ to adjust the settings.



## **Clock Phase**

The **Clock Phase** matches the PC signal with the LCD display. Adjusting this can clear horizontal stripes and picture blur.

- In the **Display Settings** menu, press ▲ or ▼ to select **PC Settings** and press **OK**.
- Press ▲ or ▼ to select Clock Phase.
- Press ◀or ► to adjust until the picture clears.

# Sampling Clock

Adjusting the **Sampling Clock** alters the number of pulses per scan. this will clear vertical lines on the screen.

- In the **Display Settings** menu, press ▲ or ▼ to select **PC Settings** and press **OK**.
- Press ▲ or ▼ to select Sampling Clock.
- Press ◀ or ▶ to adjust until the picture clears.

## Reset

Use Reset to return all items to the original factory settings.

- In the **Display Settings** menu, press ▲ or ▼ to select **PC Settings** and press **OK**.
- Press ▲ or ▼ to select **Reset** and press **OK**.

NOTE: When a PC is connected using HDMI, none of these functions will be available.

The screen is disrupted momentarily when adjusting PC Settings. This is not a sign of malfunction.

The default settings and adjustment ranges may vary depending on the input signal format.

# Input selection and AV connections

See page 10 for a detailed image showing recommended connections.

Most media recorders and decoders send a signal through the SCART lead to switch the television to the correct *Input* socket.

Alternatively, press the external source selection button  $\odot$  until the picture from connected equipment is shown.

# Input selection

Use the Input Selection window if the television does not switch over automatically.

By pressing 

on the remote control or TV, a list will appear on screen showing all inputs and external equipment.

# Pressing ⊕ on the remote control



Pressing ⊕ on the TV

| Inputs        |                    |
|---------------|--------------------|
|               | (or Cable) TV *    |
| DTV Ant       | (or Cable) Radio * |
| DTV Ant       | (or Cable) Text *  |
| DTV Sat       | t TV *             |
| DTV Sat       | t Radio *          |
| DTV Sat       | t Text *           |
| <b>→</b> 1    |                    |
| <b>-</b> €) 2 |                    |
| <b>→</b> 3    |                    |
| HDMI 1        |                    |
| HDMI 2        |                    |
| HDMI 3        |                    |
| HDMI 4        |                    |
| PC            |                    |
| ATV           |                    |

\* If radio or text channels are currently available for DTV.

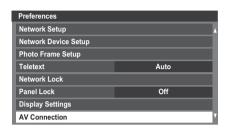
HDMI® displays equipment connected to *Input HDMI* on the back or side of the television.

PC displays a computer connected to Input RGB/PC on the back of the television

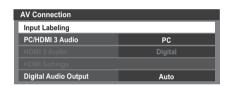
# **External input skip**

This feature is designed to make input selection more convenient by allowing you to skip unused inputs.

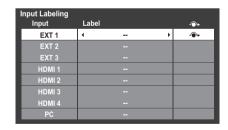
- Press MENU / ◀▶ / ▲ / ◀▶ to highlight Setup/ Preferences icons and press OK.
- Press ▲ or ▼ to select AV Connection.



- Press **OK** to display the **AV Connection** menu.
- Press ▲ or ▼ to highlight Input Labeling and press OK.



Press ▲ or ▼ to select the input you want to skip, and then press the **RED** button to turn on the skip.



To turn off the skip, press the **RED** button again.

The input set to Skip is grayed out in the Input Selection window and is skipped over when you press ① on the remote control.

## Labeling video input sources

These input labels are shown in the input selector. You can label video inputs according to the devices you have connected to the TV.

- Press MENU / ◀▶ / ▲ / ◀▶ to highlight Setup/ Preferences icons and press OK.
- Press ▲ or ▼ to select AV Connection and press OK.
- Press ▲ or ▼ to select Input Labeling and press OK.

| Input Labeling<br>Input | Label |   |   | <b>-</b> |
|-------------------------|-------|---|---|----------|
| EXT 1                   | 4     | - | + |          |
| EXT 2                   |       |   |   |          |
| EXT 3                   |       |   |   |          |
| HDMI 1                  |       |   |   |          |
| HDMI 2                  |       |   |   |          |
| HDMI 3                  |       |   |   |          |
| HDMI 4                  |       |   |   |          |
| PC                      |       |   |   |          |

Press ▲ or ▼ to highlight the item you want to label, and then press ◀ or ▶ to select --, Amplifier, Cable, DVD, Game, PC, Recorder, Satellite or VCR, or press the GREEN button to select User Input.

NOTE: When User Input is selected by pressing the GREEN button, the Software Keyboard window will appear. Input the desired characters (10 characters or less) by using the Software Keyboard (see page 47) or using the number buttons for a number input. To save your settings, press the BLUE button.

Repeat step 4 for other video inputs.

## **PC Audio**

In order to receive sound from a connected PC, plug the audio cable into the back of the television (as shown in the 'Connecting a computer' section), and then use the **PC/HDMI 3 Audio** settina.

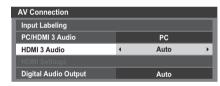
- In the **Preferences** menu, press ▲ or ▼ to select **AV**Connection and press **OK**.
- Press ▲ or ▼ to highlight PC/HDMI 3 Audio, and then press ◀ or ▶ to select the PC option.

**NOTE:** Selecting the **PC** option will force HDMI 3 Audio to Digital mode.

## **HDMI 3 Audio**

If the connected HDMI source does not support digital audio, plug the audio cable into **PC/HDMI 3 (AUDIO)** on the back of the television (as shown in the 'Connecting an HDMI's or DVI device to the HDMI input' section), then use the **HDMI 3 Audio** setting.

- In the **Preferences** menu, press ▲ or ▼ to select **AV**Connection and press **OK**.
- Press ▲ or ▼ to select HDMI 3 Audio, and then press ◀ or ▶ to select Auto or Analogue.



If the sound is absent, try selecting a different setting.

**NOTE:** HDMI 3 supports digital and analogue sound, HDMI 1, HDMI 2 and HDMI 4 are digital sound only.

Certain DVD disk formats may not output from this TV (32/44.1/48kHz and 16/20/24 bits are acceptable).

# **HDMI Settings**

Some early HDMI equipment may not work properly with your HDMI TV. Please try setting the **Enable Content Type** and **INSTAPORT** potions to **Off**. Adjusting these settings should allow your early HDMI source to operate properly with your television

- In the Preferences menu, press ▲ or ▼ to select AV Connection and press OK.
- Press ▲ or ▼ to select HDMI Settings and press OK.

  NOTE: HDMI Settings is grayed out on non-HDMI inputs.
- Press ▲ or ▼ to select an item, and then press ◀ or ► to select a setting.

| HDMI Settings |      |          |  |
|---------------|------|----------|--|
| 4             | On   | <b>+</b> |  |
|               | On   |          |  |
|               | Auto |          |  |
|               | 1    | On       |  |

## · Enable Content Type: On

This feature is part of the HDMI1.4 standard.
When set to On, the TV will automatically adjust
settings according to the content type data sent

from the connected HDMI device.

#### INSTAPORT™: On

This feature reduces the lag time when switching HDMI sources.

#### · RGB Range: Auto

This feature adjusts RGB full range signal automatically. When **Limited** is selected, RGB signal is output in the range from 16 to 235. When **Full** is selected, RGB signal is output in the range from 0 to 255.

#### NOTE:

- If your HDMI connection is capable of 1080p and/or your television is capable of refresh rates greater than 50Hz or supports Deep Colour, you will need a Category 2 cable.
   Conventional HDMI/DVI cables may not work properly with this mode.
- All of the above HDMI settings need proper HDMI source devices.

If the HDMI source products do not support these features, the television may not work properly by activating these features.

# **Digital Audio Output**

When connecting a surround sound amplifier to the digital audio output (Sony/Philips Digital Interface Format [S/PDIF]), the following options can be selected or adjusted.

In the **Preferences** menu, press ▲ or ▼ to select **AV Connection** and press **OK**.

# Press ▲ or ▼ to select Digital Audio Output.

| AV Connection        |   |      |          |
|----------------------|---|------|----------|
| Input Labeling       |   |      |          |
| PC/HDMI 3 Audio      |   | PC   |          |
| HDMI 3 Audio         |   | Auto |          |
| HDMI Settings        |   |      |          |
| Digital Audio Output | 4 | Auto | <b>+</b> |

Press **OK** to display **Digital Audio Format** menu and press **△** or **▼** to select an option.

# Audio Format:

Press ◀ or ▶ to select PCM or Auto.

**PCM:** This mode outputs PCM format to the digital audio output socket.

Auto: This mode outputs Dolby Digital (if available) or PCM to the digital audio output socket.

Dolby Digital → Dolby Digital
Dolby Digital Plus → Dolby Digital

 $MPEG \rightarrow PCM$ 

HE-AAC → Dolby Digital

#### **Audio Delay:**

Press ◀ or ▶ to select **Auto** or **Manual**.

**Auto:** This mode automatically adjusts the audio timing to meet the video timing.

**NOTE:** The time lag might be large between the image and sound depending on the connected equipment (amplifier etc.). In that case, select **Manual**.

**Manual:**You can manually adjust the audio signal timing to meet the video signal timing.

#### **Delay Adjustment:**

Press ◀ or ▶ to adjust the audio signal timing (0 – 250ms) to meet the video signal timing.

#### NOTE:

- This feature is grayed out when Audio Delay is in Auto.
- A time lag will occur when the video signal or audio signal is changed. Adjust the timing accordingly.
- When adjusting the timing, turn down the volume of the AV equipment used as far as possible.
   Depending on the equipment, noise etc. may occur when the signal is changed.
- Depending on the connected equipment (amplifier, etc.), adjustment may not be possible.
- When the optical digital output setting (Auto ←→PCM) is changed, it may be necessary to adjust the timing again.
- Do not use other than for audio output from the AV amplifier, etc. (Malfunction may occur)

# **Using Personal TV Mode**

You can customize some TV functions as desired and those settings can be saved in one of 4 Personal Modes (A to D). The Personal Mode can be selected from the **Quick Menu** (manual switching), or when individual Facial Recognition is performed with the camera, at the Welcome Window, press the coloured button corresponding to each Personal Mode.

#### **Manual Switching**

- Press QUICK to open the Quick Menu.
- Press ▲ or ▼ to select **Personal Mode** and press **OK**.

| Personal Mode     |  |
|-------------------|--|
| Normal            |  |
| & Personal Mode A |  |
| & Personal Mode B |  |
| & Personal Mode C |  |
| 8 Personal Mode D |  |

Press 
or corresponding coloured button to select individual Personal Mode from Normal, Personal Mode A, Personal Mode B, Personal Mode C and Personal Mode D. The mode will default to Normal every the TV is turned off and on.

**NOTE:** If the Personal PIN has been set, the Lock icon will be displayed. If the Personal PIN entry screen is displayed, enter the correct Personal PIN.

#### **Facial Recognition**

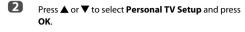
After registering faces beforehand for each Personal Mode, the Welcome Window will be displayed when the camera detects a corresponding face. The Personal Name corresponding to the detected face will be displayed in the Welcome Window.

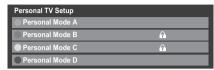
Change Personal Modes by pressing the corresponding Coloured button while the Welcome Window is being displayed. Switch at this time to the Personal Mode corresponding to the Coloured button that was pressed, even if it is the Coloured button for a Personal Mode that corresponds to a face other than the one recognized.

**NOTE:** If the Personal PIN has been set, the Personal PIN entry screen will be displayed. Enter the correct Personal PIN.

## Personal TV Setup

Press MENU / **\| \| \| / \| \| \| \| to highlight Setup/ Preferences** icons and press **OK**.





Press ▲ or ▼ (or corresponding coloured button) to select the individual Personal Mode and press OK.

| Personal TV Setup<br>Personal Mode A |         |
|--------------------------------------|---------|
| Faicial Recognition                  | On      |
| My Face                              |         |
| Registered Faces                     |         |
| Edit Name                            |         |
| Personal PIN Setup                   |         |
| Volume Type                          | Default |
| Preset Volume                        | 50      |

## **Facial Recognition**

Press ▲ or ▼ to select **Facial Recognition** and press ◀ or ► to select **On** or **Off** to activate or deactivate this function

#### Mv Face

My face is the facial registration necessary for performing Facial Recognition.



Press  $\triangle$  or  $\nabla$  to select **My Face** and press **OK**.

The My Face screen will appear.



Display the video image currently being taken by the camera. If a face is detected, display the camera sensor will place a focus around that face. When a face is detected within the "OK to register" frame on the My Face screen, press **OK** to register.

#### NOTE:

- It will be impossible to register a face if there are multiple faces detected inside of the video image.
- It will be impossible to register a face if there is no face detected inside of the video image.
- It will be impossible to register a face if the face was already registered for another personal mode.
- It will be impossible to register a face if the TV is recording status. At this time, the video from camera cannot be displayed. Black screen will be displayed and "Not available" message.
- If the above Facial Recognition is Off, My Face will be grayed out.

 If already registered 10 faces, new face cannot be registered.

#### **Registered Faces**

This feature is to confirm a face that has already been registered.

Press ▲ or ▼ to select **Registered Faces** and press OK.

The Registered Faces screen will appear.

- Press ▲ ▼ ◀ ▶ to select each registered face.
- Press the **RED** button if you want to delete the face.
- Press ◀or ▶ to select **Yes** in the confirmation window and press **OK**.

**NOTE:** When the **Reset TV** is executed, all registered faces will be reset.

#### **Edit Name**

You can edit the name of your Personal Mode. Press ▲ or ▼ to select **Edit Name** and press **OK**. Edit the desired name by using the software keyboard. (See page 47) The maximum number of characters is 25.

#### Personal PIN Setup

Press ▲ or ▼ to select **Personal PIN Setup** and press OK.

Enter your personal PIN in same manner as "Parental PIN Setup" on page 75.

#### Volume Type

Press ▲ or ▼ to select **Volume Type** and press ◀ or ► to select **Preset** or **Last**.

Last — Volume level just before you turn off the TV.

Preset — Your personal volume level you set.

#### **Preset Volume**

Press ▲ or ▼ to select **Preset Volume** and press ▲ or ▼ to adjust your desired volume level. When the **Volume Type** is set to **Last**, this feature will be grayed out.

#### **Behavior in Personal Mode**

• Personal Favourite Channel List (Fav5 -Fav8):

Normal Mode: Fav1 / Fav2 / Fav3 / Fav4
Personal Mode A: Fav5

Personal Mode B: Fav6
Personal Mode C: Fav7
Personal Mode D: Fav8

Press the **LIST** button to display Channel List and press or

to select **All** or your Personal Mode (**Fav5** – **Fav8**)

#### Personal Picture Mode:

The Picture Mode you selected is stored in your Personal Mode.

#### **Personal Grouping of Recorded Programmes**

When switching between Personal Modes, recordings (OTR, TimeShift, Timer Recording) will be displayed categorically in the Library by Personal Mode.

Programmes recorded in Personal Mode A/B/C/D with OTR or TimeShift will be saved remembering the Personal Grouping corresponding to each respective mode.

When user performs a Timer Recording while in Personal Mode A/B/C/D, after the transition to Set Timer, make the Default for Personal Grouping (a Set Timer setting item) be a selection item corresponding to whatever mode you are in.

When you perform OTR, TimeShift, or Timer Recording while in Normal Mode, the Personal Grouping for recorded programs will be remembered as "None."

# **Using REGZA-LINK**

This is a new feature that uses CEC technology and allows you to control Toshiba REGZA-LINK compatible devices from the television remote control via HDMI connection (page 12).

When the **Enable REGZA-LINK** item in the **REGZA-LINK Setup** menu is set to **On**, individual functions also set to **On** will be activated

## **Enable REGZA-LINK**

- Press MENU / ◀▶ / ▲ / ◀▶ to highlight Setup/ Preferences icons and press OK.
- Press ▲ or ▼ to select REGZA-LINK Setup and press OK.
- Press ▼ to highlight **Enable REGZA-LINK**, and then press ◀ or ▶ to select **On**.

| REGZA-LINK Setup          |   |             |          |  |
|---------------------------|---|-------------|----------|--|
| Enable REGZA-LINK         | 4 | On          | <b>+</b> |  |
| TV Auto Power             |   | On          |          |  |
| Auto Standby              |   | On          |          |  |
| Amplifier Control         |   | On          |          |  |
| Initial Speaker Setting   |   | TV Speakers |          |  |
| Position Key Pass Through |   | On          |          |  |

**NOTE:** If you set **Enable REGZA-LINK** to **Off**, all other items will be grayed out.

#### TV Auto Power

The **TV Auto Power** setting allows the television to be automatically switched on if a REGZA-LINK device is turned on.

- In the REGZA-LINK Setup menu, press ▼ to highlight TV Auto Power.
- Press ◀or ▶ to select **On** or **Off**.

# **Auto Standby**

When **Auto Standby** is enabled, the television, when switched off, will automatically switch off (standby mode) all connected REGZA-LINK equipment.

- In the REGZA-LINK Setup menu, press ▼ to highlight Auto Standby.
- Press ◀ or ▶ to select On or Off.

# **Amplifier Control**

When Amplifier Control is set to On, it allows the "Speaker Preference" feature to become available.

- In the REGZA-LINK Setup menu, press ▼ to highlight Amplifier Control.
- Press ◀ or ▶ to select **On** or **Off**.

# **Initial Speaker Setting**

This feature allows the audio output preference to be set to the TV speakers or AV amplifier speakers. The AV Amplifier option lets the television's remote control adjust or mute the volume of the audio.

- In the REGZA-LINK Setup menu, press ▼ to highlight
  Initial Speaker Setting.
- Press ◀ or ▶ to select **TV Speakers** or **Amplifier**.

# **Position Key Pass Through**

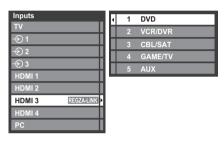
When Position Key Pass Through for the selected HDMI input mode is set to On, the  $P \cap P \vee$  and number (0-9) keys on the remote control will pass through. When in Off, those operate as TV programme selection keys.

- In the REGZA-LINK Setup menu, press ▼ to highlight
  Position Key Pass Through and press OK.
- Press ▲ or ▼ to select the appropriate HDMI mode.
- B Press ◀or ▶ to select On.

# **REGZA-LINK** input source selection

If a REGZA-LINK device with HDMI switching capability (e.g. AV amplifier) is connected to the HDMI input, you can select another REGZA-LINK device that is connected to the master HDMI device on the input source list.

- Press → and a list will appear on screen showing available input sources.
- Press ▼ to select the desired input source with REGZA-LINK icon.
- Press ▶ and a second selection screen will appear showing all connected REGZA-LINK equipment.



Press ▲ or ▼ to select the desired input source, and then press OK.

#### NOTE:

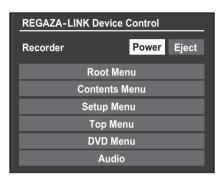
- These functions depend on the device connected.
- If you select the REGZA-LINK input source from the popup window, some REGZA-LINK devices may automatically turn
  on
- When the television is switched on it will take a few minutes for the REGZA-LINK icon to appear in the list. When an HDMI cable is removed, it will take a few minutes for the icon to disappear.
- If the HDMI cable from connected equipment is changed, Enable REGZA-LINK in the REGZA-LINK Setup menu may need to be reset to On.
- If you change the HDMI lead to a connected device or change an HDMI device setting, reset the Enable REGZA-LINK item on the REGZA-LINK Setup menu from Off to On.

# **REGZA-LINK Device Control**

With the REGZA-LINK mode on your television's remote control, you can control the connected REGZA-LINK device you are watching.

To control the REGZA-LINK input source first select the equipment by REGZA-LINK input source selection.

- Press QUICK to open the Quick Menu.
- Press ▲ or ▼ to select REGZA-LINK Device Control and press OK.



Press ▲ or ▼ to select a control option and press OK.

**NOTE:** The available functions depend on the equipment connected. Please refer to the operation manual for each piece of equipment connected.

# REGZA-LINK one touch play

When connected equipment is switched on, REGZA-LINK will automatically detect the television through the input selection. If the television is in standby, it will be switched on automatically.

These functions can be enabled or disabled from the REGZA-LINK Setup (see page 86).

#### NOTE:

- Even if the equipment is showing a menu, the television may automatically show the input source.
- This feature depends on the connected equipment and television state.

# **REGZA-LINK** system standby

If the television is turned off (standby mode), the television will send a message to turn off (standby mode) all of the REGZA-LINK devices connected to the television.

These functions can be enabled or disabled from the REGZA-LINK Setup (see page 86).

**NOTE:** This feature depends on the connected equipment and television state.

# **REGZA-LINK system audio control**

With your television's remote control, you can adjust or mute the sound volume of the speakers connected to the television via an AV amplifier.

- Set the Initial Speaker Setting to Amplifier in the REGZA-LINK Setup menu.
- Confirm that a connected REGZA-LINK device (such as a DVD player, etc) is selected for the AV amplifier input source.

#### NOTE:

- · These functions depend on the device connected.
- When you turn on the AV amplifier, change its input source, or adjust the sound volume, the sound will be output from the AV amplifier's speakers even if TV Speakers has been selected. Turn the television off and on again to output the sound from the TV Speakers.
- This feature may not work if the AV amplifier is operated.

## Toshiba PC compatible with REGZA-LINK

This feature automatically adjusts the suitable widescreen formats and picture preferences when connected to a Toshiba PC compatible with REGZA-LINK.

**NOTE:** This feature depends on the connected equipment state.

# **Text services**

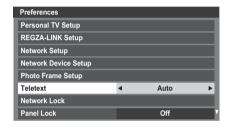
This television has a multi-page text memory, which takes a few moments to load. It offers two *Modes* of viewing text – **Auto** will display **Fastext**, if available. **List** will save your four favorite pages.

## Selecting modes

The text character set will be automatically chosen by the language setting in the **Setup** menu.







#### Text information

#### The TEXT button:

To view text services press **TEXT**. Press again to superimpose the text over a normal broadcast picture and again to return to normal viewing. Channels cannot be changed until text is cancelled.

The first text page shown will be the initial page.

Any text page can be accessed by entering the 3 digit page number using the numbered buttons, pressing the coloured buttons or pressing **P**^ to advance to the next page and **P**^ to go back to the previous page.

#### Sub-pages

The pages on the screen will dynamically update as subpages are received.

If you open a page containing sub-pages, the sub-pages are automatically displayed in sequence. To quit automatic sub-page change, press ◀ or ▶.

Once selected, the sub-page you are viewing will be highlighted and, as the television loads any additional sub-pages, the colour of the numbers will change, indicating that these pages have been loaded.

These sub-pages will remain available to view until another page is chosen or, in normal TV mode, the channel is changed.

# Navigating pages using Auto

If **Fastext** is available, four coloured titles will appear at the base of the screen

To access one of the four given subjects, press the relevant coloured button on the remote control.

For further information on your particular text system(s), see the broadcast text index page or, consult your local Toshiba dealer.

## Navigating pages using LIST

The four coloured choices at the bottom of the screen are numbers – 100, 200, 300 and 400, which have been programmed into the television's memory. To view these pages, press the relevant coloured buttons.

To change these saved pages, press the relevant coloured button and enter the 3 digit number. This number will change in the top left of the screen and in the coloured highlight.

Press OK to save. Whenever OK is pressed, all four page numbers showing at the bottom will be saved and the previous ones will be lost.

If **OK** is not pressed, the selection will be forgotten when the channel is changed.

Other pages may be viewed by entering the 3 digit page number – but DO NOT press **OK** or these pages will be saved.

## **Control buttons**

Below is a guide to the functions of the remote control text

## **i** To display the index/initial page:

Press **=i**) to access the index/initial page. The one displayed is dependant on the broadcaster.

#### TEXT To display a page of text:

Press **TEXT** to display text. Press again to superimpose text over a normal picture. Press again to return to normal television viewing. Channels cannot be changed until this has been done.

# **■?** To reveal concealed text:

To discover the solutions on quiz and joke pages press the **F** button.

## To hold a wanted page:

At times it is convenient to hold a page of text. Press 🔄 and 🖃 will appear in the top left of the screen. The page will be held on screen until the button is pressed again.

# **≡ †** To enlarge the text display size:

Press ( ) once to enlarge the top half of the page, press again to enlarge the bottom half of the page. Press again to revert to normal size.

# (i)/EX To select a page whilst viewing normal picture:

Enter the page number then press ①/(EX), normal picture will be displayed. The television will indicate when the page is ready by changing the colour of the page number at the top of the screen. Press **TEXT** to view the page.

#### To display news flashes:

Select the news flash page for the chosen text service (see the index page of text service). The news flashes will be displayed as and when they are broadcast.

Remember to cancel text before changing channels - press the TEXT button twice.

# **Questions and Answers**

Below are the answers to some of the most common gueries.



# Why is there no sound or picture?



Check the television is not in standby mode. Check the mains plug and all mains connections.



There is a picture, but why is there little or no colour?



When using an **external** source, for instance, a poor quality video tape, if there is little or no colour, improvements may sometimes be achieved. The colour is factory set to Auto to automatically display the best colour system.

To check that you have the best colour:

With the external source playing, select Colour System from the System Setup menu.

| System Setup  |   |          |
|---------------|---|----------|
| Menu Language | E | nglish   |
| Country       | G | ermany   |
| Colour System | 4 | Auto ▶ 7 |

2 With ◀or ▶ choose between Auto, PAL, SECAM, NTSC 4.43 or NTSC 3.58.



Why doesn't the video/DVD being played show on screen?



Make sure the media recorder or DVD player is connected to the television as shown on page 10, and then select the correct input by pressing **2**.



## Why is there a picture but no sound?



Check all lead connections.

No sound or unacceptable format sound may be received.

Check the volume has not been turned down or that sound mute has not been selected.

Check shared audio settings.

# What else can cause a poor picture?



Interference or a weak signal. Try a different television station. Manual Fine Tuning may help.



Select the ATV Manual Tuning menu. Highlight the station and press **OK**. Then press ▶ to select **Manual** Fine Tuning.

2

Using ▲ or ▼ adjust to get the best picture and sound. Press OK and then EXIT.





Why don't the controls of the television work?



Check that Panel Lock is not On.



Why doesn't the remote control work?



Check that the batteries aren't dead or inserted incorrectly.



Why is the digital channel locked?



The channel has been locked in Channel Options (see 'Digital Settings' section).



Why are some of the digital subscription channels unavailable?



Your subscription needs upgrading. Contact your service provider.



Why is the soundtrack in English when a different audio language has been selected?



The programme is currently being broadcast with an English soundtrack only.



Why is there incorrect or no sound when in DTV mode?



Press OI/I to ensure the hard of hearing option has not been selected.

# What is DVB-T?

Digital Video Broadcast via an aerial/antenna.

What is DVB-C?

Digital Video Broadcast via a cable connection.

**A** How are radio channels selected?

Press **TV** on the remote control and select **DTV Radio**. Alternatively select from the GUIDE.

What can be done if the PIN number has been forgotten?

Use the Master PIN code of 1276, then change to a number of your choice. Select **Parental PIN Setup** from the **DTV Settings** menu to enter PIN. Ensure that no-one else can use the Master PIN by removing the Owner's Manual.

**W**hy are there vertical stripes on the screen when in PC mode?

The Sampling Clock may need adjustment. Select PC Settings from the Display Settings menu, highlight Sampling Clock and adjust until the lines clear.

Why are there horizontal stripes and/or blurred images on the screen when in PC mode?

The Clock Phase may need adjustment. Select PC Settings from the Display Settings menu, highlight Clock Phase and adjust until the picture clears.

Why when digital subtitles have been selected are they not showing on screen?

Subtitles are not currently being transmitted by the broadcaster.

Why are there problems with analogue text?

Good performance of text depends on a good strong broadcast signal. This normally requires a roof or loft aerial. If the text is unreadable or garbled, check the aerial. Go to the main index page of the text service and look for the User Guide. This will explain the basic operation of text in some detail. If further information is needed on how to use text see the text section.

Why is a page number visible at the top of the screen but no text?

Text has been selected but Teletext information is currently unavailable on the current source.

*Why are the colours wrong when an NTSC source is played?* 

Connect the source via a SCART lead and play.
Select **Colour System** from the **System Setup** menu.

Set the Colour to **Auto** and exit.

Go to the Picture menu and adjust the tint.

*O* Why don't the devices connected via HDMI operate properly?

Make sure to use cables with the HDMI logo

Some early HDMI equipment may not work properly with the latest HDMI TV products, due to new standard adoption. Try switching the HDMI settings (Enable Content Type and INSTAPORT<sup>TM</sup>) to Off.

Why don't the REGZA-LINK devices work?

When the connected REGZA-LINK device does not work correctly after you have changed the settings of the device, turn off your television and unplug the power cord, and then plug and turn on again. Unplug the HDMI cable of the REGZA-LINK device and lead again.

Why is the REGZA-LINK logo still showing when the equipment has been disconnected?

If the REGZA-LINK device is disconnected, the logo will disappear after approximately one minute.

Why don't the networked devices work?

The LAN cables are not connected properly or at all. Connect all cables (see page 14). Make sure your network address is set up correctly (see page 45).

Why doesn't the wireless network work?

Make sure the TOSHIBA Dual Band WLAN Adaptor is used (see page 14).
Check that the AP is powered on.



# Why doesn't the Media Player feature operate?



Make sure that devices are connected correctly. Incorrect behavior may occur with a USB Hub connection.

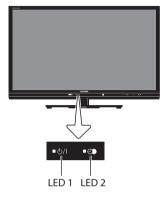
Check your network setup if using DLNA CERTIFIED  $^{\!\top\!\!}$  Server.



# What do the LEDs on the front of the television indicate?



Check the table below.



| LED inc | dication | Condition   | Solution |  |
|---------|----------|---|----------|--|
| LED-1   | LED-2    | Condition   | Solution |  |
| Green   | Orange   | Power ON<br>Programme Timer is set<br>Both Programme Timer<br>(Recording) and Recording are<br>NOT working                | 1        |  |
| Green   | Red      | Power ON<br>Programme Timer (Recording)<br>or Recording is working  | -        |  |
| Green   | OFF      | Power ON Programme Timer is NOT set Both Programme Timer (Recording) and Recording are NOT working                        | -        |  |
| Red     | Orange   | Power OFF (Standby) Programme Timer is set Both Programme Timer (Recording) and Recording are NOT working                 | -        |  |
| Red     | Red      | Power OFF (Standby) Programme Timer (Recording) or Recording is working   | ı        |  |
| Red     | OFF      | Power OFF (Standby)<br>Programme Timer is NOT set<br>Both Programme Timer<br>(Recording) and Recording are<br>NOT working | -        |  |

| LED indi          | cation            | Condition                             | Solution                              |  |
|-------------------|-------------------|---------------------------------------|---------------------------------------|--|
| LED-1             | LED-2             | Condition                             | Joidtion                              |  |
| OFF               | Green<br>(Blinks) | Abnormal operation of BUS line.       | Turn OFF the TV<br>and unplug the     |  |
| Red<br>(Blinks)   | OFF               | Abnormal operation of WDT.            | power cord. Plug<br>the power cord in |  |
| Green<br>(Blinks) | OFF               | Fan stopped.<br>(if applicable)       | again and turn ON<br>the TV.          |  |
| Orange            | Green             | For Service<br>SW Upgrade in Progress | -                                     |  |
| Red               | OFF               | For Service<br>SW Upgrade Failed      | -                                     |  |
| Green             | OFF               | For Service<br>SW Upgrade Successful  | -                                     |  |

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AUDYSSEY

Audyssey EQ technology

 Manufactured under license from Audyssey Laboratories. U.S. and foreign patents pending. Audyssey EQ is a registered trademark of Audyssey Laboratories.
 Audyssey EQ is based on the same core technology as Audyssey MultEQ that is used for automatic correction of room acoustics. Audyssey EQ uses time-domain filters to correct problems that arise from speaker drivers and enclosures and is calibrated to account for the acoustical problems in a typical listening environment.

#### Cleaning the screen and cabinet...

Turn off the power, clean the screen and cabinet with a soft, dry cloth. We recommend that you **do not** use any proprietary polishes or solvents on the screen or cabinet as this may cause damage.

#### Disposal...

The following information is only for EU-member states:

#### Disposal of products

The crossed out wheeled dust bin symbol indicates that products must be collected and disposed of separately from household waste. Integrated batteries and accumulators can be disposed of with the product. They will be separated at the recycling centres.

The black bar indicates that the product was placed on the market after August 13, 2005.

By participating in separate collection of products and batteries, you will help to assure the proper disposal of products and batteries and thus help to prevent potential negative consequences for the environment and human

For more detailed information about the collection and recycling programmes available in your country, please contact your local city office or the shop where you purchased the product.

## Disposal of batteries and/or accumulators

The crossed out wheeled dust bin symbol indicates that batteries and/or accumulators must be collected and disposed of separately from household waste.

If the battery or accumulator contains more than the specified values of lead (Pb), mercury (Hg), and/or cadmium (Cd) defined in the Battery Directive (2006/66/EC), then the chemical symbols for lead (Pb), mercury (Hg) and/or cadmium (Cd) will appear below the crossed out wheeled dust bin symbol.

By participating in separate collection of batteries, you will help to assure the proper disposal of products and batteries and thus help to prevent potential negative consequences for the environment and human health. For more detailed information about the collection and recycling programmes available in your country, please contact your local city office or the shop where you purchased the product.





# Information

Before connecting any external equipment, turn off all main power switches. If there is no switch, remove the mains plug from the wall socket.

Signal information for Mini D-sub 15 pin connector

| Pin No. | Signal name | Pin No. | Signal name | Pin No. | Signal name |
|---------|-------------|---------|-------------|---------|-------------|
| 1       | R           | 6       | Ground      | 11      | NC          |
| 2       | G           | 7       | Ground      | 12      | NC          |
| 3       | В           | 8       | Ground      | 13      | H-sync      |
| 4       | NC*         | 9       | NC          | 14      | V-sync      |
| 5       | Ground      | 10      | Ground      | 15      | NC          |

<sup>\*</sup> NC = not connected

# Acceptable PC signals through the PC terminal

The PC input on this TV only accepts signal formats which are compliant with VESA-DMT as shown in the table below. Since some PCs input signals which are different from the resolution and frequency described in the table below, the following phenomenon may occur; incorrect display, false format detection, picture position failure, blur, or judder. In this case, set the monitor output format on your PC to conform to a signal in the table below.

| Format | Resolution  | V. Frequency | H. Frequency | Pixel Clock Frequency | VESA Standard (DMT) |
|--------|-------------|--------------|--------------|-----------------------|---------------------|
| VGA    | 640 × 480   | 59.940Hz     | 31.469kHz    | 25.175MHz             | •                   |
|        |             | 72.809Hz     | 37.861kHz    | 31.500MHz             | •                   |
|        |             | 75.000Hz     | 37.500kHz    | 31.500MHz             | •                   |
| SVGA   | 800 × 600   | 56.250Hz     | 35.156kHz    | 36.000MHz             | •                   |
|        |             | 60.317Hz     | 37.879kHz    | 40.000MHz             | •                   |
|        |             | 72.188Hz     | 48.077kHz    | 50.000MHz             | •                   |
|        |             | 75.000Hz     | 46.875kHz    | 49.500MHz             | •                   |
| XGA    | 1024 × 768  | 60.004Hz     | 48.363kHz    | 65.000MHz             | •                   |
|        |             | 70.069Hz     | 56.476kHz    | 75.000MHz             | •                   |
|        |             | 75.029Hz     | 60.023kHz    | 78.750MHz             | •                   |
| WXGA   | 1280 × 768  | 59.995Hz     | 47.396kHz    | 68.250MHz             | •                   |
|        |             | 59.870Hz     | 47.776kHz    | 79.500MHz             | •                   |
|        |             | 74.893Hz     | 60.289kHz    | 102.250MHz            | •                   |
|        | 1360 × 768  | 60.015Hz     | 47.712kHz    | 85.500MHz             | •                   |
| SXGA   | 1280 × 1024 | 60.020Hz     | 63.981kHz    | 108.000MHz            | •                   |
|        |             | 75.025Hz     | 79.976kHz    | 135.000MHz            | •                   |

# Acceptable video or PC signals through the HDMI terminals

The HDMI inputs on this TV only accept VGA, SVGA, XGA, WXGA, and SXGA signal formats which are compliant with VESA as shown in the table below. Since some PCs and HDMI or DVI devices input signals which are different from the resolution and frequency described in the table below, the following phenomenon may occur; incorrect display, false format detection, picture position failure, blur, or judder. In this case, set the monitor output format on your PC, HDMI or DVI device to conform to a signal in the table below.

| Format | Resolution   | V. Frequency    | H. Frequency     | Pixel Clock Frequency | VESA<br>Standard |  |
|--------|--------------|-----------------|------------------|-----------------------|------------------|--|
| 480i   | 720 × 480i   | 59.940/60.000Hz | 15.734/15.750kHz | 27.000/27.027MHz      |                  |  |
| 576i   | 720 × 576i   | 50.000Hz        | 15.625kHz        | 27.000MHz             |                  |  |
| 480p   | 720 × 480p   | 59.940/60.000Hz | 31.469/31.500kHz | 27.000/27.027MHz      |                  |  |
| 576p   | 720 × 576p   | 50.000Hz        | 31.250kHz        | 27.000MHz             |                  |  |
| 1080i  | 1920 × 1080i | 59.940/60.000Hz | 33.716/33.750kHz | 74.176/74.250MHz      |                  |  |
| 1080i  | 1920 × 1080i | 50.000Hz        | 28.125kHz        | 74.250MHz             |                  |  |
| 720p   | 1280 × 720p  | 59.940/60.000Hz | 44.955/45.000kHz | 74.176/74.250MHz      |                  |  |
| 720p   | 1280 × 720p  | 50.000Hz        | 37.500kHz        | 74.250MHz             |                  |  |
| 1080p  | 1920 × 1080p | 59.940/60.000Hz | 67.433/67.500kHz | 148.352/148.500MHz    |                  |  |
| 1080p  | 1920 × 1080p | 50.000Hz        | 56.250kHz        | 148.500MHz            |                  |  |
| 1080p  | 1920 × 1080p | 24.000Hz        | 27.000kHz        | 74.250MHz             |                  |  |
| VGA    | 640 × 480    | 59.940/60.000Hz | 31.469/31.500kHz | 25.175/25.200MHz      | •                |  |
|        |              | 72.809Hz        | 37.861kHz        | 31.500MHz             | •                |  |
|        |              | 75.000Hz        | 37.500kHz        | 31.500MHz             | •                |  |
| SVGA   | 800 × 600    | 56.250Hz        | 35.156kHz        | 36.000MHz             | •                |  |
|        |              | 60.317Hz        | 37.879kHz        | 40.000MHz             | •                |  |
|        |              | 72.188Hz        | 48.077kHz        | 50.000MHz             | •                |  |
|        |              | 75.000Hz        | 46.875kHz        | 49.500MHz             | •                |  |
| XGA    | 1024 × 768   | 60.004Hz        | 48.363kHz        | 65.000MHz             | •                |  |
|        |              | 70.069Hz        | 56.476kHz        | 75.000MHz             | •                |  |
|        |              | 75.029Hz        | 60.023kHz        | 78.750MHz             | •                |  |
| WXGA   | 1280 × 768   | 59.995Hz        | 47.396kHz        | 68.250MHz             | •                |  |
|        |              | 59.870Hz        | 47.776kHz        | 79.500MHz             | •                |  |
|        |              | 74.893Hz        | 60.289kHz        | 102.250MHz            | •                |  |
|        | 1360 × 768   | 60.015Hz        | 47.712kHz        | 85.500MHz             | •                |  |
| SXGA   | 1280 × 1024  | 60.020Hz        | 63.981kHz        | 108.000MHz            | •                |  |
|        |              | 75.025Hz        | 79.976kHz        | 135.000MHz            | •                |  |

# Media Player Supported Format

| Media<br>Player | Media<br>Format      | File<br>Extension | Video/Audio codec   | US<br>B | DLNA | Note   |
|-----------------|----------------------|-------------------|---|---------|------|--|
| Photo           | JPEG                 | .jpg<br>.jpeg     | JPEG  | Yes     | Yes  | <usb> Data compatibility: JPEG Exif ver 2.2  Maximum viewable resolution: 4096 x 4096 (HW decode) 16384 x 16384 (SW decode)  Maximum photo size: 9MB  Maximum number of files: 2000 / folder <dlna> Data compatibility: JPEG EXIF Ver.1.x or later, JFIF 1.02a  Maximum photo resolution: 4096 x 4096  Maximum photo size: 6 MB  Maximum number of files: 2000 / folder</dlna></usb> |
| Movie           | MPEG-2 PS            | .mpg              | Video) MPEG-1 Video   | Yes     | No   | <usb></usb>  |
|                 | MPEG-2 TS            | .mpeg<br>.ts      | Video) MPEG-2 Video<br>H.264(MPEG-4 AVC)  | Yes     | Yes  | Maximum number of files: 2000 / folder <dlna></dlna>   |
|                 |                      |                   | Audio) MPEG-1 Layer1<br>MPEG-1 Layer2<br>MPEG-2 Layer2<br>Dolby Digital (AC-3)<br>L-PCM | Yes     | Yes  | **) Some files may not be played.  *) Normal playing and trick playing may not be available depending on the contents.   |
|                 |                      |                   | Audio) Dolby Digital Plus<br>AAC<br>HE AAC  | Yes     | No   | *) DivX external subtitles are not support.  |
|                 | MP4                  | .mp4              | Video) H.264(MPEG-4 AVC)  | Yes     | Yes  |  |
|                 |                      | .m4v              | Audio) AAC  | Yes     | Yes  |  |
|                 |                      |                   | Audio) HE AAC<br>Dolby Digital (AC-3)<br>Dolby Digital Plus                             | Yes     | No   |  |
|                 | AVI                  | .avi              | Video) DivX (3,4,5,6)   | Yes     | No   |  |
|                 | DivX<br>DivX Plus HD | .divx<br>.div     | Audio) Dolby Digital (AC-3)<br>MPEG-1 Layer3<br>MPEG-1 layer3                           | Yes     | No   |  |
|                 | MKV                  | .mkv              | Video) H.264  | Yes     | No   |  |
|                 | DivX Plus HD         |                   | Audio) AAC<br>HE AAC<br>Dolby Digital (AC-3)<br>MPEG-1 Layer 3                          | Yes     | No   |  |
|                 | AVCHD                | .mts              | Video) H.264(MPEG-4 AVC)  | Yes     | Yes  |  |
|                 |                      | .m2ts             | Audio) Dolby Digital (AC-3)   | Yes     | Yes  |  |
| Music           | MP3                  | .mp3              | Audio) MPEG-1 Audio Layer-3<br>MPEG-2 Audio Layer-3<br>MPEG-2.5 Audio Layer-3           | Yes     | Yes  | <usb><br/>Maximum number of files: 2000 / folder<br/><dlna></dlna></usb>   |
|                 | MP4                  | .mp4              | Audio) AAC  | Yes     | No   | Maximum number of files: 2000 / folder   |
|                 |                      | .m4a              | Audio) HE AAC   | Yes     | No   | * Some files may not be played.  |
|                 | L-PCM                |                   | Audio) L-PCM  | No      | Yes  |  |

# **Specifications and accessories**

| Specii                              | ications                    | and   | acces                                      | sories  |  |   |  |  |
|-------------------------------------|-----------------------------|---|--|---|--|---|--|--|
| Receiving sy                        | rstems                      |   |  |   | Power consumption  | 32SL 103W   |  |  |
| DVB-T Broadcast systems/chann       |                             | nels  | els Broadcast systems/channels             |   | (approx.)  | 37SL 107W   |  |  |
| UK                                  | JK UHF 21-68                |   | PAL-I UHF UK21-UK69                        |   |  | 42SL 135W<br>46SL 147W  |  |  |
| France                              | VHF 05-10 (VHF<br>UHF 21-69 | 01-05)  | PAL-B/G                                    | UHF E21-E69<br>VHF E2-E12, S1-S41   |  | 32UL 107W   |  |  |
|                                     |                             |   |  |   |  | 37UL 111W<br>42UL 139W  |  |  |
| Germany                             | ny VHF 05-12<br>UHF 21-69   |   | SECAM-L                                    | UHF F21-F69<br>VHF F1-F10, B-Q  |  | 46UL 151W   |  |  |
| Austria                             | VHF 05-12                   |   | SECAM-D/K                                  | UHF R21-R69   | Annual power<br>consumption*   | 32SL 94.8kWh<br>37SL 100.9kWh   |  |  |
| UHF 21-69                           |                             |   |  | VHF R1-R12  | (approx.)  | 42SL 131.4kWh   |  |  |
| Switzerland                         |                             |   |  |   |  | 46SL 142.4kWh   |  |  |
|                                     | UHF 21-69                   |   |  |   |  | 32UL 97.1kWh  |  |  |
| Italy                               | VHF 05-12 (D,E,F            | ,G,H,H1,  | H2)  |   |  | 37UL 103.2kWh<br>42UL 133.7kWh  |  |  |
| Spain                               | UHF 21-69<br>UHF 21-69      |   |  |   |  | 46UL 144.7kWh   |  |  |
| Nederlands                          |                             |   |  |   | On mode power  | 32SL 64.9W  |  |  |
| Neuenanus                           | UHF 21-69                   |   |  |   | consumption** (approx.)  | 37SL 69.1W<br>42SL 90.0W  |  |  |
| Greece                              | VHF 05-12                   |   |  |   | (  | 46SL 97.5W  |  |  |
| Greece                              | UHF 21-69                   |   |  |   |  | 32UL 66.5W  |  |  |
| DVR-C Broad                         | dcast systems               |   |  |   |  | 37UL 70.7W<br>42UL 91.6W  |  |  |
|                                     | S2 Broadcast sy             | stems   |  |   |  | 46UL 99.1W  |  |  |
| Video Input                         | PAL, SECAM, NT              | SC 3.58/-   | 4.43                                       |   | Standby power  | 32SL/37SL 0.3W  |  |  |
| External cor                        | nnections                   |   |  |   | consumption  | 42SL/46SL 0.2W  |  |  |
| EXT 1                               | Input/Output                | 21-pin  | SCART                                      | RGB, A/V input  | (approx.)  | 32UL/37UL 0.3W<br>42UL/46UL 0.2W  |  |  |
|                                     |                             |   |  | AV out, TV out  | *0 1   |   |  |  |
| EXT 2                               | Input                       | Phono jacks   | $Y$ , $P_B/C_B$ , $P_R/C_R$<br>Audio L + R | <ul> <li>* Operating 4 hours a day and 365 days a year.</li> <li>** Tested in accordance with IEC 62087-BD Ed. 2.0:2008.</li> </ul> |  |   |  |  |
|                                     |                             | Phono jacks   |  | ** Tested in accordance   | with IEC 62087-BD Ed. 2.0:2008.  |   |  |  |
| EXT 3                               | Input                       | Phono   | jacks                                      | Video/Audio L + R   | Dimensions   | 32SL/32UL 53cm (H) 75cm (W) 26cm (D)  |  |  |
| HDMI 1/2/3/                         | HDMI 1/2/3/4 Input          |   | compliant                                  |   | (approx.)  | 37SL/37UL 59cm (H) 87cm (W) 26cm (D) 42SL/42UL 68cm (H) 99cm (W) 29cm (D)                 |  |  |
|                                     |                             |   | compliant<br>e Content Tvi                 | pe, INSTAPORT™,   |  | 46SL/46UL 73cm (H) 108cm (W) 29cm (D)   |  |  |
|                                     |                             |   | inge, suppor                               |   |  | (Height dimension includes foot stand)  |  |  |
| PC                                  | Input                       | Mini D-sub 15-pin Analog RGB signal<br>3.5mm mini jack Audio    |  | Weight (approx.)  | 32SL/32UL 13.0kg<br>37SL/37UL 15.0kg<br>42SL/42UL 20.5kg   |   |  |  |
| PC/HDMI 3 A                         | ludio input                 |   |  |   |  |   |  |  |
| Digital Audio                       | Output (S/PDIF)             | Optica  | I  |   |  | 46SL/46UL 22.5kg  |  |  |
| LAN port                            |                             | RJ-45   |  | Operating condition   | Temperature 5°C - 35°C (41°F - 94°F)   |   |  |  |
| USB 1/USB 2                         | port                        | Media   | Player<br>ce version: U                    | SPan  |  | Humidity 20 - 80% (non-condensing)  |  |  |
|                                     |                             |   | ass: Mass Sto                              |   | Wireless connection  | <ul> <li>Standard: IEEE 802.11a/b/g/n</li> <li>Frequency Range: 5.15-5.35 GHz,</li> </ul> |  |  |
|                                     |                             | File system: FAT16 and FAT32                                    |  |   |  | 5.47-5.725 GHz, 5.725-5.850 GHz,  |  |  |
| USB 2 port                          |                             | Wireless LAN adaptor ready for a home                           |  |   |  | 2.400-2.4835 GHz  |  |  |
|                                     |                             |   | rk, IEEE802.1                              |   |  | <ul> <li>Security: WEP64/128, TKIP, AES,<br/>WPA/PA2-PSK, WPS, None</li> </ul>            |  |  |
|                                     |                             | compatible (for SL86 series) USB HDD connection ready (for UL86 |  |   | Supplied accessories   | Remote control CT-90369 (SL86 series)   |  |  |
| series)                             |                             | series)   |  |   | 2 batteries (AA, IEC R6 1.5V)  |   |  |  |
| Headphone socket                    |                             | 3.5mm stereo  |  |   | <ul> <li>Remote control CT-90382 (UL86 series)</li> <li>2 batteries (AAA, IEC R03 1.5V)</li> <li>'P' Clip/Screw (for TV mounting)</li> </ul> |   |  |  |
| Stereo                              |                             | Nicam<br>2 carrier system                                       |  |   |  |   |  |  |
|                                     |                             |   | •  |   |  | See page 5.   |  |  |
| Visible Screen Size Model (approx.) |                             | ize Model 32 80cm<br>37 94cm                                    |  |   | Optional accessories   | <ul> <li>TOSHIBA Dual Band WLAN Adaptor<br/>WLM-10U2 (for SL86 series)</li> </ul>         |  |  |
| Solid and                           |                             | 42 107cm  |  |   |  | USB HDD (for UL86 series)   |  |  |
|                                     |                             |   | 117cm                                      |   |  | For available USB HDD, see "Product   |  |  |
| Display                             |                             | 16:9  |  |   |  | Information" on the website.  |  |  |
| Sound outp                          | 10W +                       | 10W   |  |   |  |   |  |  |
| (at 10% disto                       | ortion)                     |   |  |   | Çr   | pecification is subject to change without notice  |  |  |

Specification is subject to change without notice.

# For your own records



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